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appliance switches

indicator lamps

fuseholders

IEC sockets

# arcoelectric



Solutions for appliance & electronic applications

Catalogue 168

April

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this catalogue is available on CD  
and on [www.arcoelectric.co.uk](http://www.arcoelectric.co.uk)



Arcoelectric Switches plc,  
Central Avenue,  
West Molesey, Surrey  
England KT8 2RF

tel: +44 (0)20 8979 3232  
fax: +44 (0)20 8979 2565  
[info@arcoswitch.co.uk](mailto:info@arcoswitch.co.uk)  
[www.arcoelectric.co.uk](http://www.arcoelectric.co.uk)



## Solutions for appliance & electronic applications

### Arcoelectric Switches plc

#### Head Office, Sales and R&D

61 Central Avenue, West Molesey,  
Surrey, England KT8 2RF

VAT Registration No. GB 211 3314 30

Tel +44 (0)20 8979 3232  
Fax +44 (0)20 8979 2565  
e-mail [info@arcoswitch.co.uk](mailto:info@arcoswitch.co.uk)  
Web [www.arcoelectric.co.uk](http://www.arcoelectric.co.uk)

#### Directors

R.A. Collier  
H.J.A. Cowley  
J. Harris  
J. Collier  
M.A. Collier  
I. Ranken Collins

Chairman  
Managing Director  
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Director  
Director  
Non-executive Director

Company Secretary D. Birdwood-Hedger

Export Sales H.J.A. Cowley  
L.A. Hamon

UK Sales C. Macdonald

#### North American Customers

We have a 20,000 sqft production  
& distribution facility in Los Angeles:

**Arcoelectric Corporation,**  
9001 Canoga Avenue, Canoga Park,  
California 91304, USA.

Tel +1 818 700 1933  
Fax +1 818 700 9541  
e-mail [info@arcoelectric.com](mailto:info@arcoelectric.com)  
Web [www.arcoelectric.com](http://www.arcoelectric.com)

President Carrie Bonica



### Arcoelectric worldwide

Arcoelectric Switches plc, established in 1932, specialise in the manufacture of appliance switches, indicator lights and fuseholders for every kind of product from computers to coffee machines and lighting to laser printers.

We have two fully integrated factories totalling 90,000 sq.ft. in Surrey, England, where we manufacture mouldings, springs, pressings and turnings. The majority of our product is assembled automatically.

Arcoelectric also have purpose built factories in Shenzhen, China (42,000sq.ft) and Tunis, North Africa (30,000 Sq.ft.).

The Group has recently acquired Otehall Switches Ltd., a specialist manufacturer of high quality snap-action switches.

Arcoelectric Switches plc and Otehall Switches Ltd are wholly owned subsidiaries of Arcoelectric Holdings plc, a Public Company quoted on the Alternative Investment Market (AIM) in London.



## Approvals

The majority of Arcoelectric products are covered by international approvals. These will assist you in obtaining worldwide approval of your own products.

Europe - The  ENEC mark replaces national approval marks for switches complying with product standard EN61058-1.  
 America - Switch approvals to UL1054.  
 Canada - Switch approvals to CSA C22.2 No.55-M1986.  
 Our North African and China factories are also approved by these authorities.

## Quality Assurance Approval



We are a BSI Registered Firm to  
 BS EN ISO 9002: 1994. Certificate No: FM 14821.

Not all products are produced on site, such items are therefore not manufactured under this approval.

  Appliances bearing the   mark are able to circulate freely in Europe. Products in this catalogue, when fitted correctly, comply with the   requirement insofar as it relates to them.

## Product from stock

For stock product availability please visit our website, call our sales office or contact your nearest agent or distributor, listed on the back of this catalogue.

## Bankers

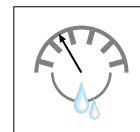
HSBC Bank plc,  
 56 High Street, Esher, Surrey, KT10 9RD.  
 Sterling Account No. 21148257 Sort Code: 40-20-26

HSBC Bank plc,  
 P.O. Box 181, 27-32 Poultry, London, EC2P 2BX.  
 U.S. Dollar Account No. 37038042 Sort Code: 40-05-15  
 Euro Account No. 39023138 Sort Code: 40-05-15

The Hong Kong and Shanghai Banking Corporation Limited,  
 1 Queen's Road, Central, Hong Kong.  
 U.S. Dollar Account No. 600-833255  
 Hong Kong Dollar Account No. 600-833255-001

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8 - 29 rocker switches



**GO**

30 - 33 slide switches



34 - 47 push switches



42 - 45 vandal resist switches



48 - 52 snap-action & safety switches



53 - 57 refrigerator switches



58 - 60 rotary switches



61 - 65 lever switches



66 - 78 indicators



79 - 81 IEC sockets



82 - 83 fuseholders





## Solutions for appliance & electronic applications

### 6 Million Products

Every month we assemble over six million switches, indicator lights, fuseholders and IEC sockets.

### 5 Manufacturing Centres

Almost all component parts used in our products - mouldings, pressings, springs and turned parts, are manufactured in our own production centres, then assembled and tested fully automatically.

### 23 Automatic Assembly Machines

The great majority of our rocker, slide, push button and lever switches are assembled automatically.

### 52 Injection Moulding Machines

Working at pressures up to 80 tons, our mould shop delivers over 250 million components each year.

### 60,000 Miniature Springs

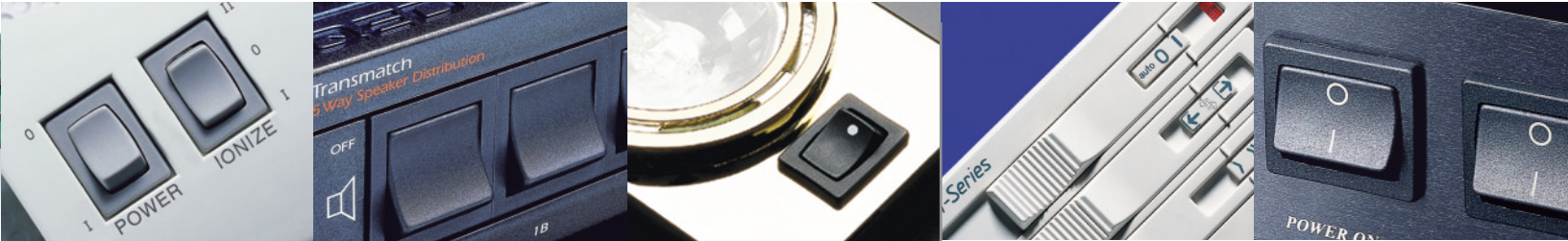
Some only a millimetre or so in diameter, are wound each hour. Every one will be measured and tested.

### 15 Power Presses

We manufacture over 200,000 contacts and terminals every hour.

Production





effective

design

development

sampling

costing

production

distribution

support

### **Automated Testing**

Each assembly machine tests the electrical and mechanical function of every completed product.

### **8,000,000 turned parts**

On site manufacture of our component parts ensures full control of our production.

### **Tooling - In-house**

A fully equipped toolroom manufactures and maintains the jigs, press and mould tools we use each day.

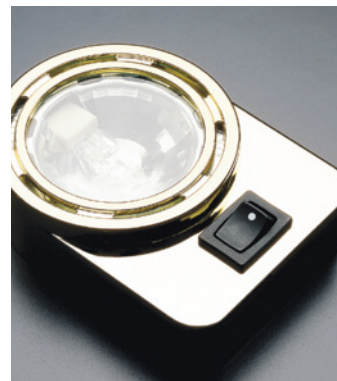
### **Flexibility of response**

Twenty-four hour running allows a positive response to customer requests and ensures a competitively priced finished product.

### **Research & Development**

Our designers will work with you to achieve practical solutions which satisfy your particular design criteria.

**Arcoelectric is the largest manufacturer of appliance switches in the UK.**



# Technical Information - Switches and Fuseholders

Most major technical information is shown on each specific product page, other details are grouped here for easy reference. Details shown here apply to most switches and fuseholders.

Snap-action switches (pages 42, 45 and 48-51), indicators (pages 66-78) and connectors (pages 79-81) have product specific information within the section.

| MATERIALS                        | MOST PRODUCTS      | EXCEPTIONS                                                                                                     |
|----------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------|
| Body and actuator (opaque) ..... | Nylon 6.6 .....    | 8300V, 1900V, 0916V & 0911V bezels & actuators are stainless steel<br>0600 and 3900 actuators are plated brass |
| Actuator (transparent) .....     | Polycarbonate      |                                                                                                                |
| Current carrying parts .....     | Copper Alloy       |                                                                                                                |
| Contact points .....             | Silver Alloy ..... | N/A for 0055/56, 0600/2, 0916-0920, 0017, 2000 & 3005/3006. Gold plated for 1100.                              |

## PROPERTIES

### Electrical

|                                                         |                                           |                               |
|---------------------------------------------------------|-------------------------------------------|-------------------------------|
| Class II compliant .....                                | Confirmed .....                           | IEC Sockets                   |
| Electrical life (Operations) .....                      | >10k, many >50k .....                     | See relevant page for details |
| Contact resistance (switches) new condition .....       | <100mΩ (at 12Vdc,1A) .....                | For 1100 & 2000 call factory  |
| Contact resistance (fuseholders) new condition .....    | 5mΩ (average)                             |                               |
| Insulation resistance .....                             | >20mΩ                                     |                               |
| Dielectric strength:                                    |                                           |                               |
| across open contacts .....                              | >1kV                                      |                               |
| between poles .....                                     | >3kV                                      |                               |
| between live parts and accessible metal .....           | >4kV                                      |                               |
| Comparative Tracking Index (CTI) .....                  | >250                                      |                               |
| Temperature rise (terminals) at end of rated life ..... | max 30°K (UL 1054), max 55°K (EN 61058-1) |                               |

## PROPERTIES

### Physical

|                                                                                                     |                              |                                                |
|-----------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|
| Humidity resistance at 91-95% relative humidity<br>(to subsequently comply with requirements of the |                              |                                                |
| Dielectric strength test) .....                                                                     | 48hrs                        |                                                |
| Impact resistance .....                                                                             | >0.5Nm                       |                                                |
| Storage temp. (1 year period) .....                                                                 | <125°C .....                 | Some discolouration of terminals may occur     |
| Flame retardancy .....                                                                              | UL94V2                       |                                                |
| Solderability to BS 2011 pt.2.1T - (with an iron) .....                                             | 6 secs at 350°C              |                                                |
| Angular movement ± 4° overall (where applicable) .....                                              | 38° .....                    | 1250, 6000, 8500, 8550, 8600, 8650, 8800 - 26° |
| Force to operate .....                                                                              | 2.0N - 20.0N .....           | Call factory for specific values               |
| Fixing nut torque (where applicable) .....                                                          | 1.0Nm (8.91 lb/in) nom. .... | Call factory for specific values               |

## GENERAL INFORMATION

### ALL SWITCHES

Heat and Fire resistance Category D.  
Ingress Protection without cover is IP40.  
Higher ratings where available will be shown on the relevant catalogue page.

### ALL PRODUCTS

Solder terminals should not be fitted with "Push on", "QD" or "Fast on" type cable connectors.

**Panel holes must be punched in the direction of insertion.**

Items marked ♦ on the following pages are assembled automatically.  
This ensures the highest attainable quality at a competitive price.

All products should be applied, installed and maintained by the customer using competent persons in accordance with good electrical practice. Products should be tested by the customer in the application to ensure suitability. Special care should be taken not to expose switches to water, dust, corrosive chemicals, silicone, excessive solder flux, cyanoacrylate adhesives, severe impact, extremes of temperature, electrical supply voltage or load current in excess of the specified limits.

Transparent lenses on indicator lights and lit switches are moulded in polycarbonate, a material which is attacked by organic chemicals and animal or vegetable fats.

Please contact the factory for advice on these products.

For performance in accord with the stated ratings, switch actuators should be fully depressed and fully released during operation.

### WEIGHTS OF OUR MOST FREQUENTLY SUPPLIED PRODUCTS, not including packaging.

| Product                | gms     | Product          | gms  | Product              | gms  | Product          | gms   | Product        | gms  |
|------------------------|---------|------------------|------|----------------------|------|------------------|-------|----------------|------|
| 0055, 0056 . . . . .   | 5.7/6.8 | 1048 . . . . .   | 2.8  | 1570 . . . . .       | 12.7 | 5500 . . . . .   | 7.1   | 8353 . . . . . | 5.9  |
| 0305 . . . . .         | 32.9    | 1091FH . . . . . | 12.6 | 1584-1589 . . . . .  | 11.1 | 5503 . . . . .   | 7.8   | 8500 . . . . . | 3.8  |
| 0333 . . . . .         | 4.5     | 1091FL . . . . . | 52.8 | 1700H . . . . .      | 8.4  | 5567 . . . . .   | 14.3  | 8550 . . . . . | 4.8  |
| 0345 . . . . .         | 8.9     | 1100 . . . . .   | 2.0  | 1750H . . . . .      | 13.2 | 6050 . . . . .   | 13.58 | 8553 . . . . . | 5.2  |
| 0340 sw only . . . . . | 7.12    | 1250SP . . . . . | 5.9  | 17500 . . . . .      | 25.6 | 6053 . . . . .   | 14.15 | 8600 . . . . . | 3.5  |
| 0340K/P . . . . .      | 25.0    | 1250DP . . . . . | 7.0  | 2000 2pos C SP . . . | 3.8  | 7000 . . . . .   | 10.4  | 8620 . . . . . | 4.3  |
| 0430 . . . . .         | 5.5     | 1300 . . . . .   | 5.7  | 2000 2pos C DP . . . | 4.5  | 7050 . . . . .   | 12.3  | 8650 . . . . . | 6.3  |
| 0589 . . . . .         | 3.5     | 1350 . . . . .   | 11.2 | 2000 5pos A SP . . . | 6.3  | 7053 . . . . .   | 12.9  | 8670 . . . . . | 8.5  |
| 0711-1S . . . . .      | 16.6    | 1500 . . . . .   | 5.7  | 2000 5pos A DP . . . | 7.3  | 8250 . . . . .   | 4.9   | 8800 . . . . . | 2.9  |
| 0712-S . . . . .       | 27.8    | 1520 . . . . .   | 6.6  | T2225B . . . . .     | 5.0  | 8300 . . . . .   | 4.0   | 9100 . . . . . | 20.0 |
| 0717-1S . . . . .      | 22.4    | 1550 . . . . .   | 11.2 | 2950 . . . . .       | 5.3  | 8350 . . . . .   | 5.0   |                |      |
| 0900S/L . . . . .      | 2.6/2.9 | 1553 . . . . .   | 11.8 | 3111 . . . . .       | 11.8 | 8350RP . . . . . | 34.0  |                |      |

# Splashproof & Dust Resistant options for Switches

## Suitability

A large number of Arcoelectric products have optional or designed-in resistance to moisture or dust.

For detailed IP ratings call the factory.

The suitability of these products for specific applications is subject to numerous factors including:

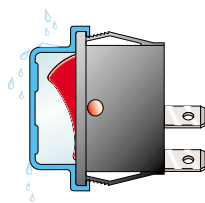
Mounting method and product orientation, air movement, pressure differential across the product, intensity of impinging liquid flow and application voltage.

Splashproofing does not imply total sealing, or resistance to corrosive atmospheres or substances.

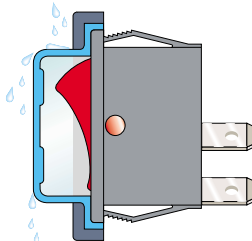
|                                                                             |                                                                                                                   |                                                                                                                   |                                                                                                                    |                                                                                                                     |                                                                                                                     |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Order code for splash/dust proofing options is shown under the illustration | Page 10<br>                      | Pages 12 & 14<br>                | Pages 12 & 14<br>                | Page 16<br>                      | Page 16<br>                      |
|                                                                             | <b>8500 Twin</b><br>can be fitted with                                                                            | <b>8600 &amp; 8620</b><br>can be fitted with                                                                      | <b>8650 &amp; 8670</b><br>can be fitted with                                                                       | <b>R13 Single pole</b><br>can be fitted with                                                                        | <b>R13 Double pole</b><br>can be fitted with                                                                        |
|                                                                             | <br><b>L167</b><br>Push-on cover | <br><b>L167</b><br>Push-on cover | <br><b>L180</b><br>Push-on cover | <br><b>L188</b><br>Push-on cover | <br><b>L188</b><br>Push-on cover |

|                                                                             |                                                                                                                         |                                                                                                                  |                                                                                                                   |                                                                                                                           |                                                                                                                    |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Order code for splash/dust proofing options is shown under the illustration | Page 18<br>                          | Page 20<br>                   | Page 22<br>                   | Page 24<br>                          | Page 26<br>                   |
|                                                                             | <b>6000</b><br>has integral water-thru feature and                                                                      | <b>1500 and 1300</b><br>available with W or B Splashproof rockers or                                             | <b>5503</b><br>can be fitted with                                                                                 | <b>6050</b><br>has integral water-thru feature and                                                                        | <b>1550 and 1350</b><br>can be fitted with                                                                         |
|                                                                             | <br><b>G</b><br>Snap-on cover option | <br><b>G</b><br>Snap-on cover | <br><b>G</b><br>Snap-on cover | <br><b>G</b><br>Snap-on cover option | <br><b>G</b><br>Snap-on cover |

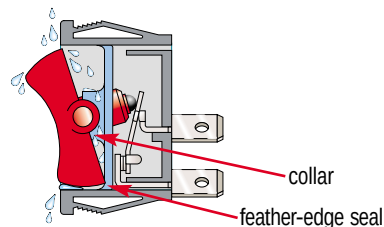
## How they work



**L167, L180, L188**  
Push-on splashproof/  
dustproof covers  
for rocker/push switches



**G**  
Snap-on splashproof/  
dustproof cover & bezel  
for rocker switches



**1500 W and 1500 B splashproof rockers**  
have internal feather edge seals and a close fitting collar to protect current carrying parts from moisture  
*Option B has Hytrel moulded collar/seals for enhanced protection*

## The right system

The fitting of external covers or panel sealing washers will normally alter standard panel acceptance dimensions.

The fitting of external covers is not recommended for momentary (spring return) rocker or lever switches.

In all instances applications should be discussed with the factory. We will advise you on the best system for your application.

*For full product details, dimensions and ratings refer to the catalogue page shown in the photograph (not to scale).*

Order code for splash/dust proofing options is shown under the illustration

Page 34



**8300**  
can be fitted with



**L167**  
Push-on cover

Page 41



**0916V**  
has integral seal

Page 43



**1900**  
has integral seal

Page 44



**8300V**  
has integral seal

Page 45



**0911V**  
has integral seal

Order code for splash/dust proofing options is shown under the illustration

Page 55



**3005**  
splashproof design

Page 56/57



**3100 and 3141**  
splashproof design

Page 62



**3900 and 3950**  
have integral O-ring seal and can be fitted with



M539 or M1080  
neck seal or cover

Page 64



**1700 and 1750**  
can be fitted with



M331, M539, M1080  
covers or neck seals

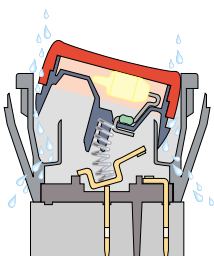
Page 61



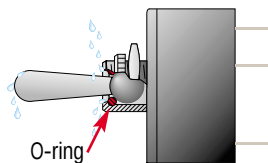
**0600**  
can be fitted with



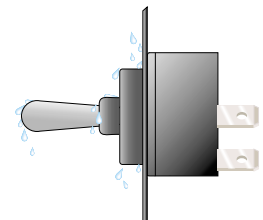
M331, M539, M1080  
covers or neck seals



**Water-thru**  
Integral  
splashproof  
system (pat app.)



**O-ring**  
Integral seal  
for 3900 series  
metal lever switches



**Covers & Neck seals**  
(with nut fixing)  
for lever switches

# 8800 Thinline Rocker Switches 10A 250Vac



10(6)A 250Vac T100  
6(2)A 250Vac T100 5E4 (50,000 Operations)  
Inrush 50A to EN60065:1998



UL CSA 15A 250Vac (Twin unit is 10A 250Vac)  
UL CSA 125Vac 1/2hp  
UL 100°C, file E45221, CSA file LR10990

**In house test** 10A 28Vdc

3mm contact gap  
Technical data on pages 4 & 5

**H 8800 V A - - -**  
TERMINAL   FUNCTION   ROCKER   BODY   PRINT, COLOUR, ETC

| ▶ TERMINAL                          | ▶ FUNCTION                                               | ▶ ROCKER           |
|-------------------------------------|----------------------------------------------------------|--------------------|
| <b>H</b><br><br>4.8 x 0.8           | <br>Switches are ON when pressed over terminal 1         | <b>V</b><br>Curved |
|                                     | <b>8800</b> ♦<br>                                        |                    |
|                                     | <br><b>8801</b><br>Call factory for ratings & dimensions |                    |
|                                     | <br><b>8802</b><br>Call factory for ratings & dimensions |                    |
| <b>T</b><br><br>3.5 x 0.8<br>Solder | <br>Switches are ON when pressed over terminals 1 or 3   |                    |
|                                     | <b>8800/8800</b><br>                                     |                    |



H8800VA ---  
T8800VA ---



H8800VA ---  
T8800VA ---



H8800V/H8800VA  
T8800V/T8800VA



H8800V/H8800VA  
T8800V/T8800VA

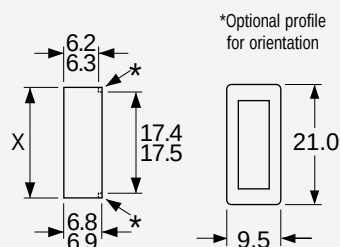
## BODY

### Panel cut-outs

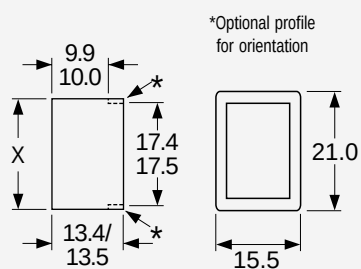
### Flange

Cut-outs must be punched in the direction of insertion

#### A Single pole



#### A Single pole - Twin



Panel thickness  
0.75-1.24  
1.25-1.99  
2.00-3.00

Dim X  
19.1/19.2  
19.3/19.4  
19.7/19.8

## OPTIONS

### Finish

Matt finish only

### Colour

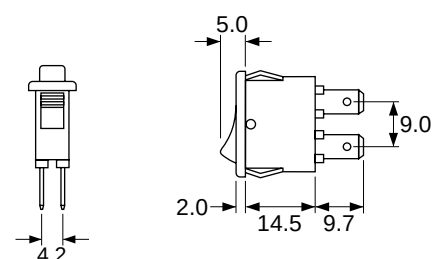
Call factory for custom colours.  
A full range is available for large orders

### Legend printing

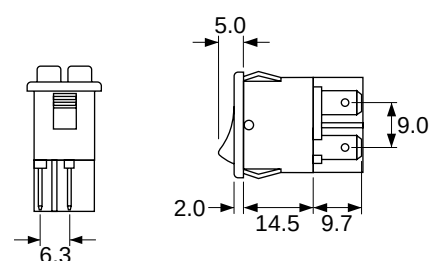
Select from the examples or call the  
factory for custom legends

## Dimensions (mm)

### 8800VA (H terminals shown)



### 8800V/8800VA (H terminals shown)



## Examples of printing



CL132



CL133

# 8500 Rocker Switches - Miniature 10A 250Vac Single & Double Pole



10(6)A 250Vac T125 (non lit types)  
6(4)A 250Vac T125 5E4 (50,000 Operations) (non lit types)  
10(6)A 250Vac T100 (lit types)



UL CSA 15A Non Ind 250Vac, 14A Ind 250Vac, 10A 277Vac  
UL CSA 250Vac 1/2hp, 125Vac 1/4hp  
UL 105°C, file E45221, CSA file LR10990



Inrush 85A to EN61058-1 & 10A 28Vdc

3mm contact gap

Technical data on pages 4 & 5 (switches), 66 (indicators)

**H 8550 V B ---**

TERMINAL   FUNCTION   ROCKER   BODY   PRINT, COLOUR, VOLTAGE ETC

| TERMINAL                                                                              | FUNCTION                                                                                              | ROCKER                                                                |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>H</b><br><br>4.8 x 0.8                                                             | Approvals & ratings vary with function<br><br><br>On Off Switches are ON when pressed over terminal 1 | <b>H</b> Slotted for custom adaptors<br>Slots for snap-in buttons<br> |
| <b>K</b><br><br>2.8 x 0.8                                                             | <b>8500</b> ♦<br><br><br>ON - OFF<br>Single pole<br>(Uses terminals 1a & 2a)                          | <b>R</b> Semi-rotary<br>                                              |
| <b>L</b><br><br>2.8 x 0.8<br>Right angle version of K terminal available on 8500 only | <b>8503</b> ♦<br><br><br>ON - OFF - Lit<br>Single pole                                                | <b>D</b> Paddle lever (8500 only) (not lit)<br>                       |
| <b>R</b><br><br>4.8 x 0.8                                                             | <b>8550</b> ♦<br><br><br>ON - OFF<br>Double pole                                                      | <b>V</b> Curved (not lit)<br>                                         |
| <b>T</b><br><br>Solder                                                                | <b>8553</b> ♦<br><br><br>ON - OFF - Lit<br>Double pole                                                | <b>V</b> Curved (lit)<br>                                             |
|                                                                                       | <b>8580</b><br>Available with H terminals only<br><br><br>Indicator                                   | <b>X</b> Two colour (not lit)<br>                                     |
|                                                                                       |                                                                                                       | <b>A</b> Softline lens<br>                                            |



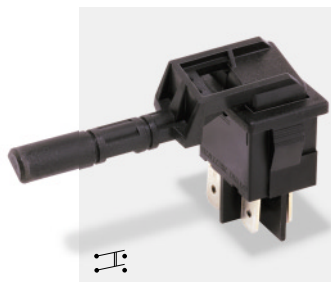
H8500VB ---  
T8500VB ---



H8550VB ---  
T8550VB ---



H8550XB ---  
T8550XB ---



H8550RB Semi-rotary  
A splash proofing option



H8553VB ---  
T8553VB ---



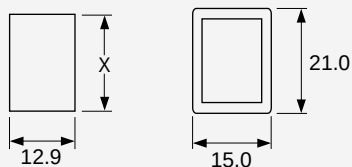
H8580AB ---

## BODY

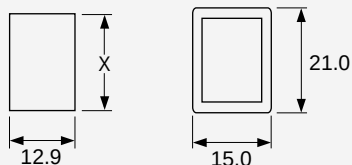
Panel cut-outs Flange

Cut-outs must be punched in the direction of insertion

**B**  
Standard body with terminal barrier



**BC**  
Body without terminal barrier



Dimensions for snap-in fixing

| Panel thickness | Dim X     |
|-----------------|-----------|
| 0.75-1.25       | 19.1/19.2 |
| 1.25-2.00       | 19.3/19.4 |
| 2.00-3.00       | 19.7/19.8 |

## OPTIONS

### Finish

Matt finish only

### Colour

Call factory for custom colours  
A full range is available for large orders

### Legend printing

Select from the examples or call the factory for custom legends

### Lamp voltage

Call factory for details of other available voltages

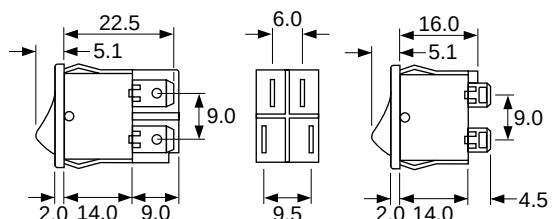
### Protective cover L167

(designed to IP65)

Snaps on to bodies with V or X style rockers and A style lens but reduces panel thickness by 0.8mm



## DIMENSIONS (mm)



"B" body with barrier for H, T and K terminals

"BC" body w/o barrier primarily for L or R terminals (can be used for all terminals)

Terminal spacing between 1a & 3b - 6.0, between 2a & 4b - 9.5

## Examples of printing



CL076



CL080

# 8600 Rocker Switches - Miniature 10A 250Vac Single & Double Pole



10(4)A 250Vac T90 (unless noted below)



UL CSA See ratings below  
UL 65°C, file E45221, CSA file LR10990

**In house test**

Inrush 25A to EN61058-1 & 10A 28Vdc

3mm contact gap except where marked  $\mu$

Technical data on pages 4 & 5 (switches), 66 (indicators)

**H 8653 V B ---**

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

| TERMINAL                                                                               | FUNCTION                                                                                                                                                                                                                          | ROCKER                                                                                                                                                                 |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>H</b><br><br>4.8 x 0.8<br>7.4                                                       | Approvals & ratings vary with function<br><br>ON - OFF<br><br>ON - OFF (momentary ON)<br><br>ON - OFF (momentary OFF)<br><br>ON - OFF Lit<br><br>ON - ON<br><br>ON - OFF (momentary 1 side)<br><br>ON - OFF - ON<br><br>Indicator | <b>V</b> Curved<br><br><br><b>V</b> Curved (lit)<br><br><br><b>D</b> Paddle lever (Single pole non-lit only)<br><br><br><b>F</b> Flat Indicator only (Single pole)<br> |
| <b>T</b><br><br>3.5 x 0.8<br>6.4<br>Solder                                             | ON - OFF<br>10(4)A<br>16A 250V, 10A 277V                                                                                                                                                                                          | <b>8600</b><br>10(4)A<br>16A 250V, 10A 277V                                                                                                                            |
| <b>X</b><br><br>3.7<br>0.8 Sq<br>5.3<br>PCB*                                           | ON - OFF (momentary ON)<br>6(1)A<br>16A 250V, 6A 277V                                                                                                                                                                             | <b>8601</b><br>6(1)A<br>16A 250V, 6A 277V                                                                                                                              |
| <b>Y</b><br><br>1.3 x 0.8<br>6.0<br>Right angle PCB<br>Contact the factory for details | ON - OFF (momentary OFF)<br>10A<br>16A 250V, 10A 277V                                                                                                                                                                             | <b>8602</b><br>10A<br>16A 250V, 10A 277V                                                                                                                               |
|                                                                                        | ON - OFF Lit<br>N/A                                                                                                                                                                                                               | <b>8653</b><br>10(4)A<br>6A 277V                                                                                                                                       |
|                                                                                        | ON - ON<br>6(1)A<br>10A 277V                                                                                                                                                                                                      | <b>8610</b><br>6(1)A<br>10A 277V                                                                                                                                       |
|                                                                                        | ON - OFF (momentary 1 side)<br>6A 277V                                                                                                                                                                                            | <b>8661</b><br>6A 277V                                                                                                                                                 |
|                                                                                        | ON - OFF - ON<br>See page 14                                                                                                                                                                                                      | <b>8670</b><br>See page 14                                                                                                                                             |
|                                                                                        | Indicator<br>8630<br>See page 14                                                                                                                                                                                                  |                                                                                                                                                                        |





H8600VB ---  
T8600VB ---



H8600VB ---  
T8600VB ---



H8630FB ---  
T8630FB ---



H8650VB ---  
T8650VB ---



H8660VB ---  
T8660VB ---



H8653VB ---  
T8653VB ---

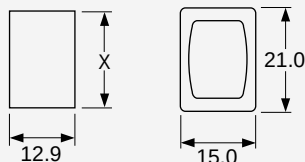
## BODY

### Panel cut-outs

### Flange

Cut-outs must be punched in the direction of insertion

### B Single pole

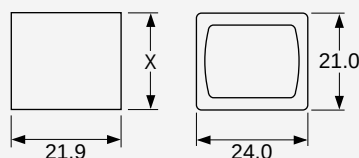


Single Pole dimensions for snap-in fixing

| Panel thickness | Dimension X |
|-----------------|-------------|
| 0.75-1.24       | 19.1/19.2   |
| 1.25-1.99       | 19.3/19.4   |
| 2.00-3.00       | 19.7/19.8   |

### B (Double Pole) with terminal barrier

### BC (Double Pole) w/o terminal barrier



Double Pole dimensions for snap-in fixing

| Panel thickness | Dimension X |
|-----------------|-------------|
| 0.75-1.24       | 19.1/19.2   |
| 1.25-1.99       | 19.3/19.4   |
| 2.00-3.00       | 19.7/19.8   |

## OPTIONS

### Finish

Matt finish only

### Colour

Call factory for custom colours  
A full range is available for large orders

### Legend printing

Select from the examples or call the factory for custom legends

### Lamp voltage

Call factory for details of other available voltages

### Blanking plate A8634FB

Dummy unit to fill unused panel holes  
Single pole size only

### Protective covers

#### L167 for SP

#### L180 for DP

(designed to IP65)

Snap on to bodies with V rocker or F lens but reduce panel thickness by 0.8mm.  
Not for use with momentary types

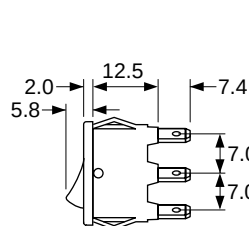


### Single Pole options

Most switches shown can have single pole switching in double pole bodies

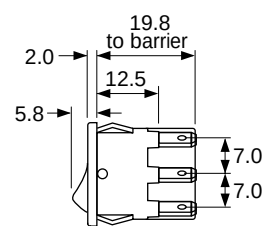
## DIMENSIONS (mm)

### Single pole



Terminals shown are "H" 4.8 push on type

### Double pole



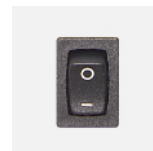
Terminal spacing 10.2 between pole centres

For 8620 and 8670 see page 14

## Examples of printing



CL076



CL080



CL141



CL142



CL059



CL058

# 8620 & 8670 Rocker Switches - 3 Positions 10A 250Vac



10(4)A 250Vac T90



UL CSA 15A 277Vac (Single pole)  
 UL CSA 250Vac 1/2hp (Single pole)  
 UL CSA 125Vac 1/4hp (Single pole)  
 UL CSA 10A 277Vac (Double pole)  
 UL CSA 125/250Vac 1/2hp (Double pole)  
 UL CSA 277Vac 1/2hp (Single & Double pole)  
 UL 90°C, file E45221, CSA file LR10990

**In house test** 10A 28Vdc

μ contact gap

Technical data on pages 4 & 5



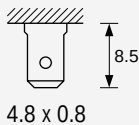
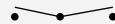
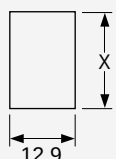
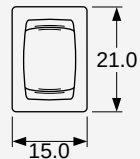
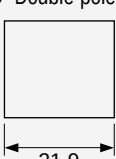
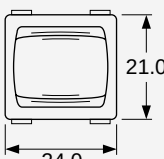
H8620VB - - -  
 T8620VB - - -



H8670VB - - -  
 T8670VB - - -

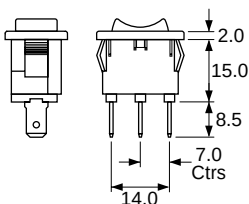
**H 8620 V B - - -**

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

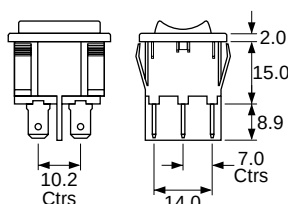
| ▶ TERMINAL                                                                                                                                                                          | ▶ FUNCTION                                                                                                                                                                                                                | ▶ ROCKER                                                                                               | ▶ BODY                                                                                                                                                                                                                                                                                                          | ▶ OPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>H</b><br><br>4.8 x 0.8                                                                        | <br><b>8620</b><br><br>ON - OFF - ON<br>Single pole | <b>V</b> Curved<br> | <b>B</b> Single pole<br><br>Panel thickness<br>0.75-1.24<br>1.25-1.99<br>2.00-3.00<br><br>Dim X<br>19.1/19.2<br>19.3/19.4<br>19.7/19.8 | <b>Finish</b><br>Matt finish only<br><br><b>Colour</b><br>Call factory<br>for custom colours.<br>A full range is available<br>for large orders<br><br><b>Legend printing</b><br>Select from the<br>examples or call factory<br>for custom legends<br><br><b>Protective covers IP65</b><br><b>L167 for SP</b><br><b>L180 for DP</b><br>(designed to IP65)<br>Snaps on to body but<br>reduces panel thickness<br>by 0.8mm<br> |
| <b>T</b><br><br>Solder                                                                           | <br><b>8670</b><br><br>ON - OFF - ON<br>Double pole |                                                                                                        | <b>B</b> Double pole<br><br>Panel thickness<br>0.75-1.24<br>1.25-1.99<br>2.00-3.00<br><br>Dim X<br>19.1/19.2<br>19.3/19.4<br>19.7/19.8 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>X</b><br><br>PCB 0.8sq<br>Switches with X terminals are<br>supplied without terminal barriers |                                                                                                                                                                                                                           |                                                                                                        | Cut-outs must be punched in the direction of insertion                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Dimensions (mm)

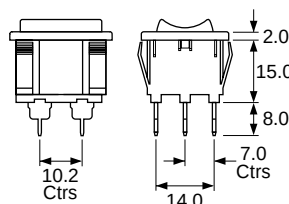
**8620VB** (H terminals shown)



**8670VB** (H terminals shown)



**8670VB** (X terminals shown)



## Examples of printing



CL141



CL142

# 1250 Rocker Switches 10A 250Vac



10(6)A 250Vac T100  
6A 400Vac T100  
1A 30Vdc



UL CSA 10A 250Vac  
UL CSA 16A 250Vac Resistive  
UL CSA 125Vac 1/2hp  
UL CSA 1A 30Vdc  
UL 100°C, file E45221, CSA file LR10990

**In house test**

Inrush 75A to EN61058-1 & 10A 28Vdc

3mm contact gap

Technical data on pages 4 & 5



C1250AP - - -



C1250AN - - -

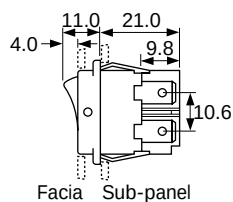
**C 1250 A P - - -**

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

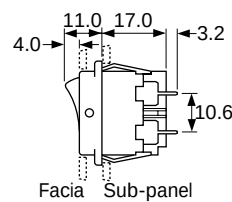
| TERMINAL                                | FUNCTION                                                                                                                | ROCKER                                 | BODY                                                                                                                                                                 | OPTIONS                                                                                                                                                                                                                            |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8               | <br>On when pressed over terminal 1<br><b>1250</b> ♦<br><br>ON - OFF<br>Double pole<br>Poles are 9.0mm between centres. | <b>A</b> Curved<br><br>Shown in N body | <b>N</b> Panel cut-out<br><br>Sub-panel<br>Facia<br>Flange<br>Panel thickness<br>0.75-1.24<br>1.25-1.99<br>2.00-3.00<br>Dim X<br>26.1/26.2<br>26.3/26.4<br>26.7/26.8 | <b>Finish</b><br>Matt finish only<br><br><b>Colour</b><br>Call factory for custom colours. A full range is available for large orders<br><br><b>Legend printing</b><br>Select from the examples or call factory for custom legends |
| <b>X</b><br><br>PCB 0.8sq (N body only) | <br>On when pressed over terminal 1<br><b>1250SP</b> ♦<br><br>ON - OFF<br>Single pole                                   | <br>Shown in P body                    | <b>P</b> Panel cut-out<br><br>Panel thickness<br>0.75-3.00<br>Cut-outs must be punched in the direction of insertion                                                 |                                                                                                                                                                                                                                    |

## Dimensions (mm)

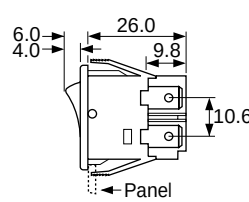
**1250AN** (C terminals shown)



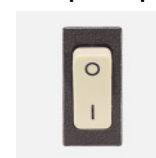
**1250AN** (X terminals shown)



**1250AP** (C terminals shown)



## Examples of printing



CL085



CL086

# R13 Round Rocker Switches 6A 250Vac



Factored  
product



SP 6A 250Vac T85,  
DP 10(4)A 250Vac T85



UL CSA SP 10A 125Vac & 6A 250Vac (For 16A call the factory)  
UL CSA DP 8A 125/250Vac  
UL 85°C, file E67774(S) CSA file LR45128

Single pole has  $\mu$  contact gap  
Technical data on pages 4 & 5

## Standard products

Are supplied with the body and rocker colour, print & lamp voltage shown in the product illustration and description

## R13 112A AAA

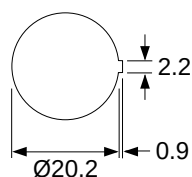
TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

### PRODUCT DETAILS

|  |                                                                                                |  |                                                                                                       |
|--|------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|
|  | <p>SP ON - OFF <math>\mu</math></p> <p>Cat no.<br/><b>R13 112A AAA</b></p>                     |  | <p>SP ON - OFF <math>\mu</math><br/><i>Lit 230V</i></p> <p>Cat no.<br/><b>R13 112B NAC</b></p>        |
|  | <p>SP ON - OFF <math>\mu</math></p> <p>Cat no.<br/><b>R13 112A AAB</b></p>                     |  | <p>SP ON - ON <math>\mu</math></p> <p>Cat no.<br/><b>R13 112C AAA</b></p>                             |
|  | <p>SP ON - OFF <math>\mu</math><br/><i>Lit 230V</i></p> <p>Cat no.<br/><b>R13 112B NAA</b></p> |  | <p>SP ON - OFF - ON <math>\mu</math></p> <p>Cat no.<br/><b>R13 112D AAA</b></p>                       |
|  | <p>SP ON - OFF <math>\mu</math><br/><i>Lit 230V</i></p> <p>Cat no.<br/><b>R13 112B NAB</b></p> |  | <p>SP ON - OFF <math>\mu</math><br/><i>(Momentary On)</i></p> <p>Cat no.<br/><b>R13 208F AAA*</b></p> |
|  | <p>DP ON - OFF</p> <p>Cat no.<br/><b>R13 244A AAA</b></p>                                      |  | <p>DP ON - OFF<br/><i>Lit 230V</i></p> <p>Cat no.<br/><b>R13 244B NAA</b></p>                         |

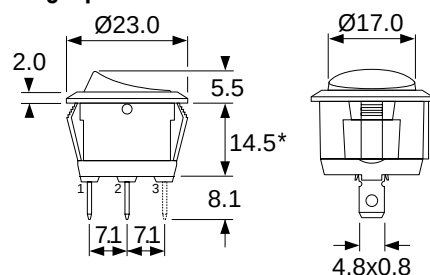
### DIMENSIONS (mm)

#### Panel cut-out



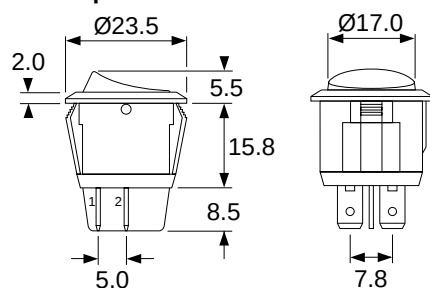
Snap fixing into panel thickness up to 3.0

#### Single pole



\* R13 208F has 12.5mm deep body

#### Double pole



# R13 Round Rocker Switches 6A 250Vac



6A 250Vac T85

**UL CSA 10A 125Vac & 6A 250Vac (For 16A call the factory)**  
**UL 85°C, file E67774(S) CSA file LR45128**

Single pole has  $\mu$  contact gap  
 Technical data on pages 4 & 5

## Special products

Are made to order and can be supplied with a range of body and rocker/lens colours, print & lamp voltage

Call the factory for availability to your special requirements

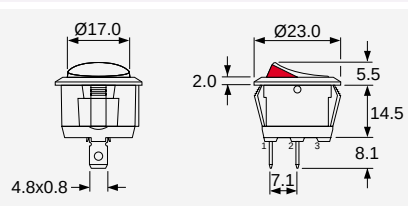
## R13 112A2 - -

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

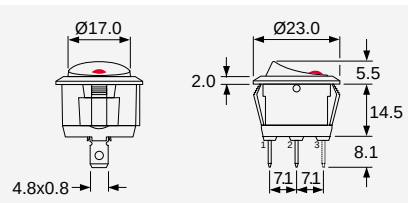
### PRODUCT DETAILS



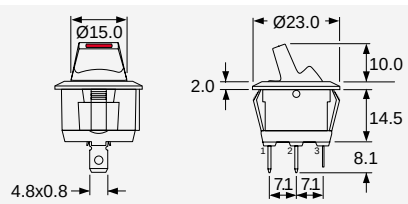
1 2  
 SP ON - OFF  $\mu$   
 Bright colour ON signal  
 Cat no.  
**R13 112A2 - -**



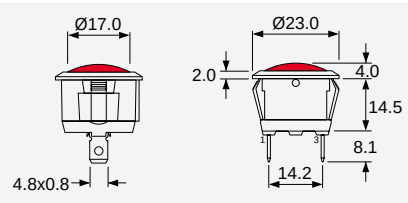
1 2 3  
 SP ON - OFF  $\mu$   
 Lit Window  
 Cat no.  
**R13 112B2 - -**



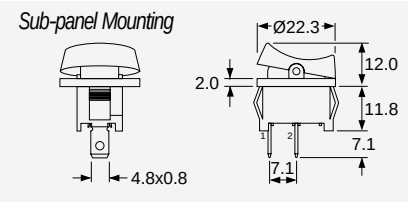
1 2 3- 3+  
 SP ON - OFF  $\mu$   
 Paddle tip has red LED  
 Cat no.  
**R13 112LP - -**



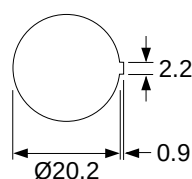
1 3  
 Indicator light  
 Cat no.  
**R9 92B - - -**



1 2  
 SP ON - OFF  $\mu$   
**R13 211A - - -**  
 1 2 3  
 SP ON - ON  $\mu$   
**R13 211C - - -**



### PANEL CUT-OUT (mm)



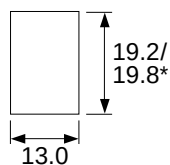
For R13 112A2  
 R13 112B2  
 R13 112LP  
 R9 92B

Snap fixing into panel thickness up to 3.0



### Protective cover L188

Snaps on to bodies (not R13 211 or R13 112LP) but reduces panel thickness by 0.6mm



For R13 211A  
 R13 211C

\* Dependent on panel thickness 0.75 - 3.0

# 6000 SP Splashproof Rocker Switches 16A 250Vac



European 16(4)A 250Vac T125, 10A 400Vac T125



UL CSA 20A<sup>+</sup> 277Vac, 250Vac 1½hp, 125Vac 1hp  
UL 100°C, file E45221, CSA file LR10990

*In house test*

Inrush 150A\* to EN61058-1 (On - Off only)

20A 28Vdc

\* \* applies to non-momentary types

6000 Switches feature "Arcshield" to hide visible switching arc

3mm contact gap with Positive Break switching

Call factory for IP details

Technical data on pages 4 & 5 (switches), 66 (indicators)

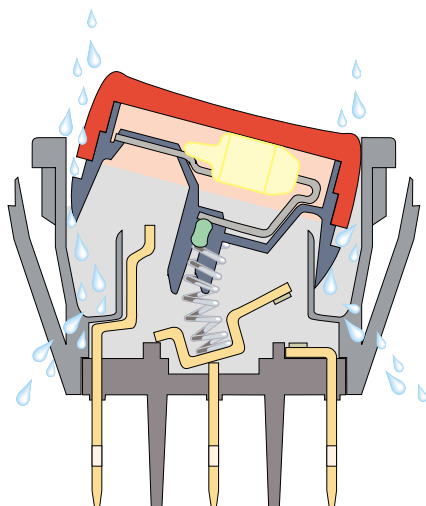
Patent app.

**C 6003 A L ---**

TERMINAL   FUNCTION   ROCKER   BODY   PRINT, COLOUR, VOLTAGE ETC

| ▶ TERMINAL                                                           | ▶ FUNCTION                                                                                      | ▶ ROCKER                                            |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                                            | Approvals & ratings vary with function<br>On Off Switches - ON when pressed over terminal 3<br> | <b>A Softline</b><br>Matt<br>                       |
|                                                                      | <b>6000</b> ON - OFF<br>                                                                        |                                                     |
|                                                                      | <b>6001</b> ON - OFF (momentary ON)<br>                                                         | <b>A Softline</b><br>Matt<br><br>Lit                |
|                                                                      | <b>6002</b> ON - OFF (momentary OFF)<br>                                                        |                                                     |
|                                                                      | <b>6003</b> ON - OFF Lit<br>                                                                    |                                                     |
|                                                                      | <b>6008</b> ON - OFF Lit (Unswitched neutral)<br>                                               | <b>P Lit window</b><br>Matt<br><br>                 |
|                                                                      | <b>6009</b> ON - OFF (momentary ON) Lit (Unswitched neutral)<br>                                |                                                     |
|                                                                      | <b>6010</b> ON - ON<br>                                                                         | <b>A Lens</b><br>Matt (6030 indicator only)<br><br> |
|                                                                      | <b>6011</b> ON - ON (momentary 1 side)<br>                                                      |                                                     |
|                                                                      | <b>6030</b> Indicator<br>                                                                       |                                                     |
| <b>H</b><br><br>4.8 x 0.8                                            |                                                                                                 |                                                     |
| <b>S</b><br><br>Screw & Clamp<br>N/A for assemblies with 3 terminals |                                                                                                 |                                                     |
| For twin switches and double pole circuits see pages 24 & 25         |                                                                                                 |                                                     |

For IP65 see “options” below



### Integral Splashproofing

Current carrying parts are protected from moisture. Droplets which may enter the switch are channelled out through ports in the switch body



C6000AL ---



C6000AL ---



C6010AL ---



C6003AL ---



C6003PL ---



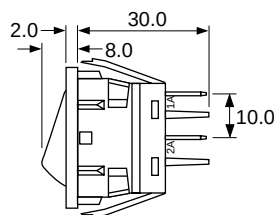
C6030AL ---

**NEW**

| BODY                                                   |        |
|--------------------------------------------------------|--------|
| Panel cut-out **                                       | Flange |
| Cut-outs must be punched in the direction of insertion |        |
| L                                                      |        |
|                                                        |        |

| OPTIONS                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Finish</b> Matt is standard                                                                                                                                                                                  |
| <b>Colour</b> Call factory for custom colours<br>A full range is available for large orders                                                                                                                     |
| <b>Legend printing</b> Select from the examples or call factory for custom legends                                                                                                                              |
| <b>Lamp voltage</b> Call factory for details                                                                                                                                                                    |
| <b>Protective cover</b> (designed to IP65)<br>The 6000 series is a water thru design. For a higher level of sealing, a snap on cover is available (add G after body code). This reduces panel thickness by 1mm. |
|                                                                                                                                                                                                                 |
| Panel sealing washer W46 is available but reduces panel thickness by a further 0.8mm. Covers are not suitable for momentary types.                                                                              |
| Mounting orientation may affect splashproofing                                                                                                                                                                  |
| For all options call the factory                                                                                                                                                                                |

### DIMENSIONS (mm)



### Panel thickness

L 0.75 to 2.5mm

\*\* For cut-out details on momentary switches call the factory

### Examples of printing



EN1224



EN1223

# 1500 Standard & 1300 Hi Inrush Switches 150A to IEC65 and 16A 250Vac



**1500 Series** 16(4)A 250Vac T125



UL CSA 16A Non Ind 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp,  
(3 posn) 250Vac 1/2hp, 125Vac 1/4hp UL 85°C, file E45221, CSA file LR10990



Inrush 36A to EN61058-1 & 20A 28Vdc



**1300 series** 16(6)A 250Vac T125 5E4 (50,000 Ops.) 150A Inrush to IEC 65,



UL CSA 20A 250Vac 1hp, 125Vac 1/2hp UL 85°C, file E45221, CSA file LR10990



20A 28Vdc

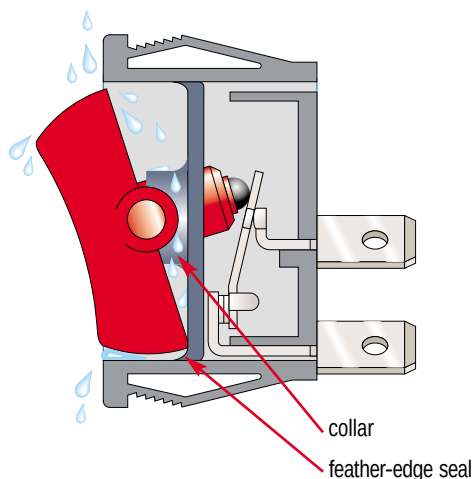
3mm contact gap except if marked  $\mu$ . Technical data on pages 4 & 5 (switches), 66 (indicators)

**C 1300 A L ---**

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

| TERMINAL                                                          | FUNCTION                                                                                        | ROCKER                                                                      |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                                         | Approvals & ratings vary with function<br>On Off Switches - ON when pressed over terminal 1     | <b>A</b> Softline Matt<br>                                                  |
| <b>H</b><br><br>4.8 x 0.8*                                        | <b>Standard</b><br><b>1500</b> ♦                                                                | <b>B</b> Splashproof (with Arcshield) Matt<br>                              |
| <b>K</b><br><br>2.8 x 0.8*                                        | <b>1501</b><br><small>HP rating N/A</small>                                                     | <b>H</b> Slotted (for custom Adaptors) not momentary<br>                    |
| <b>T</b><br><br>Solder                                            | <b>1502</b><br><small>HP rating N/A</small>                                                     | <b>V</b> Curved Matt or gloss<br>                                           |
| <b>U</b><br><br>Right angle "T" solder terminal                   | <b>1510</b> ♦ $\mu$<br><small>HP rating N/A</small>                                             | <b>W</b> Splashproof (with Arcshield) Matt<br>                              |
| <b>X</b><br><br>PCB 0.8Sq*<br><small>*N/A for 1300 series</small> | <b>1511</b> $\mu$<br><small>HP rating N/A</small>                                               | <b>X</b> Two colour Matt<br>ON - OFF only (not momentary)<br>               |
|                                                                   | <b>1520</b> ♦ $\mu$<br><small>125V &amp; 250V 1/2 HP<br/>H terminal rated<br/>T100 only</small> | <b>F</b> Flat lens Gloss (0430 only)<br>                                    |
|                                                                   | <b>1521</b> $\mu$<br><small>HP rating N/A<br/>H terminal rated<br/>T100 only</small>            | <b>A</b> Softline lens Matt (0430 only)<br>as F but with raised profile<br> |
|                                                                   | <b>1522</b> $\mu$<br><small>HP rating N/A<br/>H terminal rated<br/>T100 only</small>            |                                                                             |
|                                                                   | <b>0430</b><br><small>X terminal N/A</small>                                                    |                                                                             |
|                                                                   | <b>Indicator</b><br>Technical data on page 66                                                   |                                                                             |

## Enhanced Splashproofing



### 1500 W and B splashproof options

Feather edge seals and a close fitting collar protect current carrying parts from moisture.

B option has Hytel collar/seals for enhanced protection.



C1500AR ---  
T1500AR ---



C1500AL ---  
T1500AL ---



C1500XL ---  
T1500XL ---



C1510AL ---  
T1510AL ---



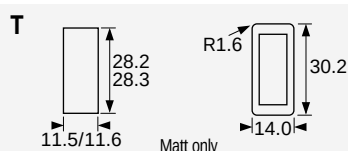
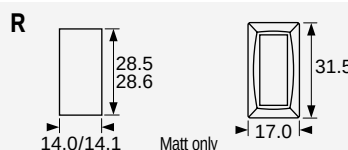
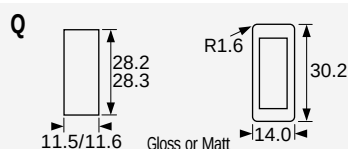
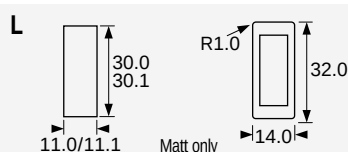
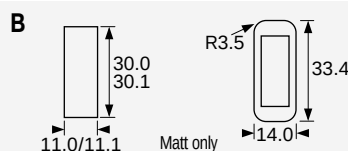
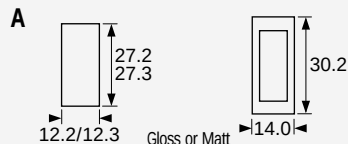
C1520AL ---  
T1520AL ---



C0430AL ---  
T0430AL ---

## BODY

Panel cut-out \* Flange  
Cut-outs must be punched in the direction of insertion



## OPTIONS

**Finish** Matt is standard

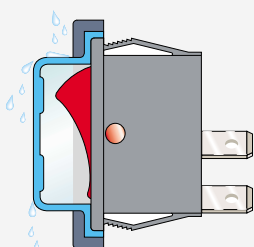
**Colour** Call factory for custom colours.  
A full range is available for large orders

**Legend printing** Select from the examples or call factory for custom legends

**Lamp voltage** Call factory for details

**Blanking plates A0434** - - Dummy units to fill unused panel holes

**Protective cover** (designed to IP65)  
Snaps on to A, L, Q or T bodies  
(add G after body in cat no).  
This reduces panel thickness by 1mm.



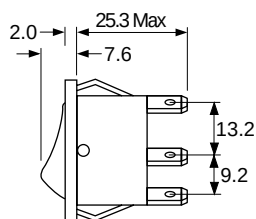
Panel sealing washer W46 is available for the same body sizes but reduces panel thickness by a further 0.8mm  
Covers are not suitable for momentary types.

### Arcshield

Hides switching arc

For all options call the factory

## DIMENSIONS (mm)



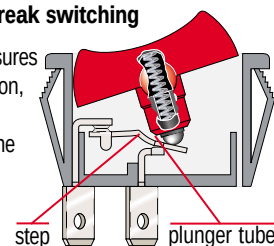
### Panel thickness

**A,Q** 0.75 to 3.3mm  
**L,B,T** 0.75 to 2.5mm  
**R** 0.75 to 3.0mm

\* For cut-out details on momentary switches call the factory

## 1300 High inrush, positive break switching

The 1300 series mechanism ensures contact welds formed at switch-on, are positively separated by the plunger tube acting directly on the step in the moving contact.



## Examples of printing



EN602A



EN730



EN822

# 5500 Lit Rocker Switches - Single Pole 16A 250Vac



16(4)A 250Vac T85  
10(3)A 250Vac T100, (12A 250Vac T125 for P rocker only)



UL CSA 15A 250Vac, CSA 16A Non Ind 250Vac  
UL CSA 250Vac 1hp, 125Vac 1/2hp  
UL 85°C, file E45221, CSA file LR10990

**In house test**

Inrush 24A to EN61058-1 & 20A 28Vdc

μ contact gap

Technical data on pages 4 & 5 (switches), 66 (indicators)

**For Twin units repeat the order details for both the right and left sides**

**C 5503 A L ---**

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

| ▶ TERMINAL                | ▶ FUNCTION                                                                                      | ▶ ROCKER                                 |
|---------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8 | Approvals & ratings vary with function<br>On Off Switches - ON when pressed over terminal 3<br> | <b>A</b> Softline (Matt only)<br><br>Lit |
| <b>H</b><br><br>4.8 x 0.8 | <b>5500</b> ♦ μ<br>ON - OFF<br>                                                                 | <br>                                     |
| <b>T</b><br><br>Solder    | <b>5503</b> ♦ μ<br>preferred option<br>ON - OFF<br>Lit<br>Switched neutral<br>                  | <b>P</b> Lit window (Matt only)<br><br>  |
|                           | <b>5508</b> μ<br>for special applications<br>ON - OFF<br>Lit<br>Unswitched neutral<br>          |                                          |



C5503AL ---



C5500AL ---



C5503PL ---



C5503A/C5430AL



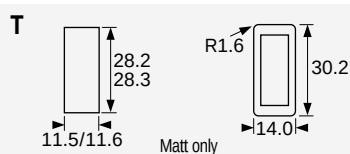
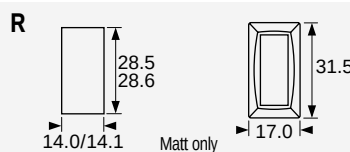
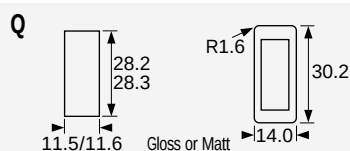
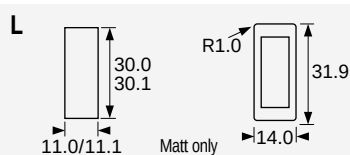
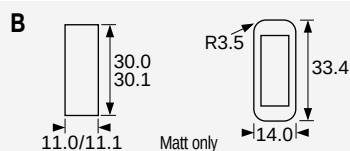
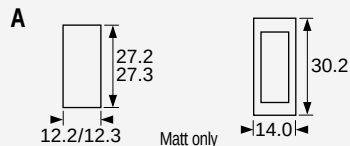
C5503A/C5503AL



C5503P/C5503PL

## BODY

**Panel cut-out \*\*** Flange  
Cut-outs must be punched in the direction of insertion



## OPTIONS

**Finish** Matt is standard

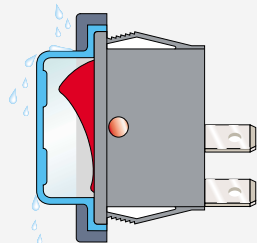
**Colour** Call factory for custom colours.  
A full range is available for large orders

**Legend printing** Select from the examples  
or call factory for custom legends

**Lamp voltage** Call factory for details

**Blanking plate A0434 --(SP) A0494 --(DP)**  
Dummy units to fill unused panel holes

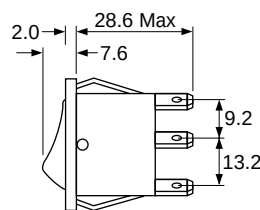
**Protective cover** (designed to IP65)  
Snaps on to A, L, Q or T bodies  
(add G after body in cat no).  
This reduces panel thickness by 1mm.



Panel sealing washers W46 (Single Pole) and  
W42 (Double Pole) are available for these  
body types but reduce panel thickness by a  
further 0.8mm

For all options call the factory

## DIMENSIONS (mm)



Terminal spacing - Poles 10.8 between centres (twin units)

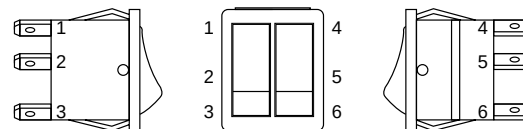
### Panel thickness

|       |               |
|-------|---------------|
| A,Q   | 0.75 to 3.3mm |
| L,B,T | 0.75 to 2.5mm |
| R     | 0.75 to 3.0mm |

\*\* For cut-out details on  
momentary switches  
call the factory

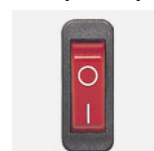
### Twin units

Two single switches or a switch and an indicator light can be  
assembled side by side in one double pole body.  
For 1500 range panel cut-out details see page 29.  
For 5500 range panel cut-out details (L, B and T) call factory.



For twin units the first set of order format details refer to the  
left hand unit, when looking at the front of the assembly  
(This has terminal numbers 1, 2 & 3)

### Examples of printing



EN3036

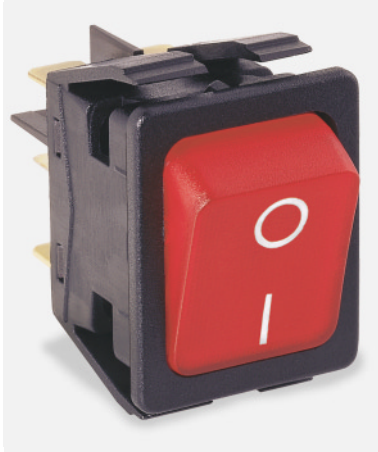


EN3064



EN706

# 6050 DP Splashproof Switches - IP44 & Twins # 16A 250Vac



European 16(4)A 250Vac T125, 10A 400Vac T125



UL CSA 20A<sup>+</sup> 277Vac, 277Vac 1hp, 125Vac 1/2hp  
UL 100°C, file E45221, CSA file LR10990

**In house test**

Inrush 150A\* to EN61058-1

8(8)A 250Vac T125 5E4 on 6050 only

20A 28Vdc

\* \* applies to non-momentary types

6050 Switches feature "Arcshield" to hide visible switching arc

3mm contact gap with Positive Break switching

# Call factory for IP details on Twin units

Technical data on pages 4 & 5 (switches), 66 (indicators)

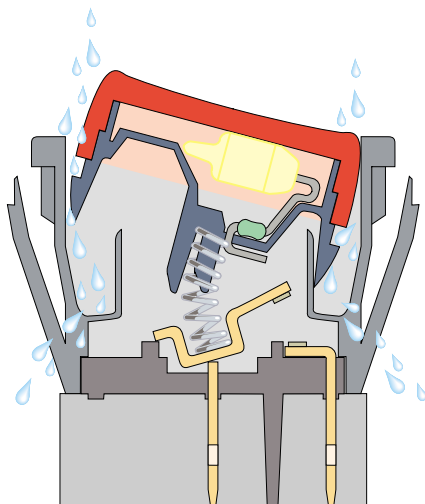
Patent app.

**C 6053 A L ---**

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

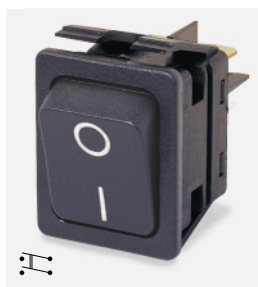
| ▶ TERMINAL                                                                          | ▶ FUNCTION                                                                                                                                                                                                                                                                                                                                                                                                                           | ▶ ROCKER                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                                                           | Approvals & ratings vary with function<br>On Off Switches - ON when pressed over terminals 3 & 6<br>                                                                                                                                                                                                                                                                                                                                 | <b>A Softline Matt</b><br>                                                      |
| <b>H</b><br><br>4.8 x 0.8                                                           | <b>6050</b> ON - OFF<br><b>6051</b> ON - OFF (momentary ON)<br><b>6052</b> ON - OFF (momentary OFF)<br><b>6053</b> ON - OFF Lit<br><b>6054</b> ON - OFF (momentary ON) Lit<br><b>6055</b> ON - OFF (Single pole) (momentary ON) Lit<br><b>6056</b> ON - OFF (Single pole) Isolated light<br><b>6057</b> ON - OFF Isolated light<br><b>6058</b> ON - OFF (Single pole) Lit<br><b>6059</b> ON - OFF (momentary ON) Isolated light      | <b>A Softline Matt</b><br><br>Lit<br><b>P Lit Window Matt</b><br><br>Lit Window |
| <b>S</b><br><br>Screw & Clamp<br>N/A for assemblies with 3 terminals in either pole | <b>6060</b> ON - ON<br><b>6061</b> ON - ON (momentary 1 side)<br><b>6062</b> 2 Circuit ON - ON<br><b>6066</b> ON - ON (Single pole) (isolated light)<br><b>6067</b> ON - ON Lit<br><b>6068</b> ON - ON 1pole ON - OFF Lit 1pole<br><b>6090</b> ON - OFF 1pole ON - OFF Lit 1pole<br><b>6091</b> ON - OFF (momentary ON) Lit<br><b>6092</b> ON - OFF 1 pole ON - ON 1 pole Lit<br>Circuits are Double Pole unless described otherwise |                                                                                 |

**For IP65 see “options” below**



### Splashproof to IP44

Current carrying parts are protected from moisture. Droplets which may enter the switch are channelled out through ports in the switch body



C6050AL ---



C6053AL ---



C6053PL ---



C6000A/C6000AL



C6003P/C6003PL



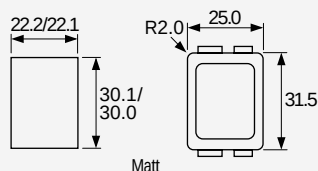
C6003P/C6030AL

**NEW**

## BODY

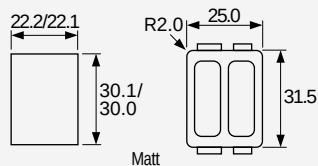
**Panel cut-out \*** Flange  
Cut-outs must be punched in the direction of insertion

### L Double pole



### L Twin units

Contact factory for information on splashproofing and IP ratings



## OPTIONS

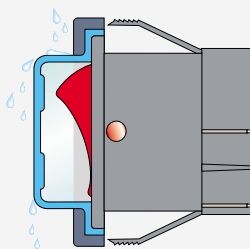
**Finish** Matt is standard

**Colour** Call factory for custom colours. A full range is available for large orders

**Legend printing** Select from the examples or call factory for custom legends

**Lamp voltage** Call factory for details

**Protective cover** (designed to IP65 #)  
The 6000 series is a water thru design. For a higher level of sealing, a snap on cover is available (add G after body code). This reduces panel thickness by 1mm.



Panel sealing washer W42 is available but reduces panel thickness by a further 0.8mm. Covers are not suitable for momentary types.

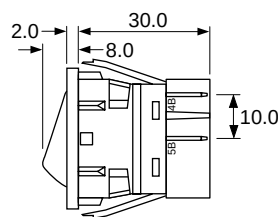
**IP Ratings** Call the factory for details

**Terminal Link P1067** connects the poles of a double pole switch or twin unit

# Mounting orientation may affect IP rating

For all options call the factory

## DIMENSIONS (mm)



Terminal spacing - Poles 10.5 between centres

### Panel thickness

L 0.75 to 3.0mm

\* For cut-out details on momentary switches call the factory

**Twin units: 2 switches or indicators in one body**  
Repeat order details for both sides (left side first)  
Call factory for IP details on Twin units  
Circuits: refer to page 18

## Examples of printing



EN1196



EN1197

# 1550 Standard & 1350 Hi Inrush Switches 150A to IEC65 and 16A 250Vac



"Arcshield" feature hides visible switching arc



**1550 Series** 16(4)A 250Vac T125



UL CSA 16A 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp, (3 posn) 250 Vac 1/2hp, 125Vac 1/4hp. UL 85°C, file E45221, CSA file LR10990



Inrush 36A to EN61058-1 & 20A 28Vdc



**1350 series** 16(4)A 250Vac T85 1E4 (10,000 Ops.)

On request 16(6)A 250Vac T125 5E4 (50,000 Ops.) & 150A Inrush to IEC 65



UL CSA 20A 250Vac 1hp, 125Vac 1/2hp  
UL 72Vdc 7A, 36Vdc 14A. UL 85°C, file E45221, CSA file LR10990



20A 28Vdc

3mm contact gap except if marked  $\mu$ . Technical data on pages 4 & 5 (switches), 66 (indicators)

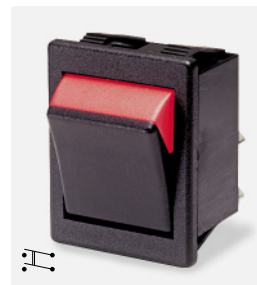
**C 1553 A L ---**

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

| TERMINAL                                                                                            | FUNCTION                                                                                    |                                                      | ROCKER                                                                      |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                                                                           | Approvals & ratings vary with function<br>On Off Switches - ON when pressed over terminal 1 |                                                      | <b>A</b> Softline Matt<br><br>Lit (not momentary)                           |
| <b>H</b><br><br>4.8 x 0.8*                                                                          | <b>Standard 1550</b> ♦                                                                      | <b>Hi Inrush 1350</b> ♦                              | <b>B</b> Splashproof (with Arcshield)<br>                                   |
| <b>K</b><br><br>2.0 1.2 2.8 x 0.8*                                                                  | <b>1551</b><br><small>HP rating N/A</small>                                                 |                                                      | <b>V</b> Curved<br><br>Matt or gloss Gloss only<br>Lit (not momentary)      |
| <b>T</b><br><br>Ø2.1 7.0<br>Solder                                                                  | <b>1552</b><br><small>HP rating N/A</small>                                                 |                                                      | <b>W</b> Splashproof (with Arcshield)<br>                                   |
| <b>U</b><br><br>Ø2.1 3.2<br>Right angle T Solder (Not DP)                                           | <b>1553</b> ♦<br><small>Not W, X or B rocker</small>                                        | <b>1353</b> ♦<br><small>Not W, X or B rocker</small> | <b>P</b> Lit window Matt<br><br>Lit (not momentary)                         |
| <b>X</b><br><br>4.0 9.1<br>PCB 0.8Sq*<br><small>*Contact factory for details on 1350 series</small> | <b>1560</b> ♦ μ                                                                             |                                                      | <b>X</b> Two colour Matt<br><br>(On Off only - not momentary)               |
|                                                                                                     | <b>1561</b> μ<br><small>HP rating N/A</small>                                               |                                                      | <b>F</b> Flat lens Gloss (0480 only)<br><br>Top view                        |
|                                                                                                     | <b>1562</b> μ<br><small>In house tests only</small>                                         |                                                      | <b>A</b> Softline lens Matt (0480 only)<br>as F but with raised profile<br> |
|                                                                                                     | <b>1570</b> ♦ μ<br><small>125V &amp; 250V 1/2 HP<br/>H terminal rated T100 only</small>     |                                                      |                                                                             |
|                                                                                                     | <b>1571</b> μ<br><small>HP rating N/A<br/>H terminal rated T100 only</small>                |                                                      |                                                                             |
|                                                                                                     | <b>1572</b> μ<br><small>HP rating N/A<br/>H terminal rated T100 only</small>                |                                                      |                                                                             |
|                                                                                                     | <b>1484</b> μ<br><small>In-house tested to 10(3)A 250Vac</small>                            |                                                      |                                                                             |
|                                                                                                     | <b>1487</b> μ<br><small>In-house tested to 10(3)A 250Vac</small>                            |                                                      |                                                                             |
|                                                                                                     | <b>0480</b><br><small>X terminal N/A</small>                                                |                                                      |                                                                             |
|                                                                                                     |                                                                                             | ON - OFF                                             |                                                                             |
|                                                                                                     |                                                                                             | ON - OFF (momentary ON)                              |                                                                             |
|                                                                                                     |                                                                                             | ON - OFF (momentary OFF)                             |                                                                             |
|                                                                                                     |                                                                                             | ON - OFF Lit                                         |                                                                             |
|                                                                                                     |                                                                                             | ON - ON                                              |                                                                             |
|                                                                                                     |                                                                                             | ON - ON (momentary 1 side)                           |                                                                             |
|                                                                                                     |                                                                                             | 2 Circuit ON - ON                                    |                                                                             |
|                                                                                                     |                                                                                             | ON - OFF - ON                                        |                                                                             |
|                                                                                                     |                                                                                             | ON - OFF - ON (momentary 1 side)                     |                                                                             |
|                                                                                                     |                                                                                             | ON - OFF - ON (momentary 2 sides)                    |                                                                             |
|                                                                                                     |                                                                                             | 3 position selective OFF - A - A+B                   |                                                                             |
|                                                                                                     |                                                                                             | 3 position selective A - B - C (link not supplied)   |                                                                             |
|                                                                                                     |                                                                                             | Indicator                                            |                                                                             |
|                                                                                                     |                                                                                             | Technical data on page 66                            |                                                                             |



C1350AL ---



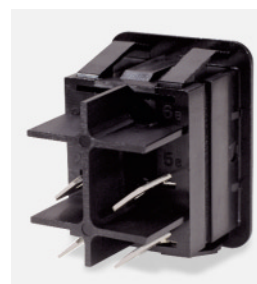
C1550XL ---



C1553PL ---



C0480AL ---



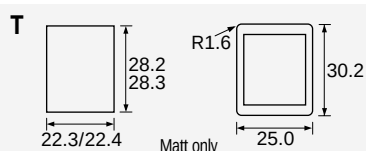
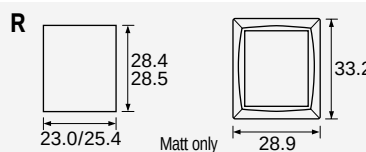
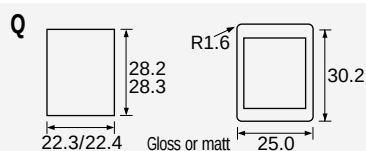
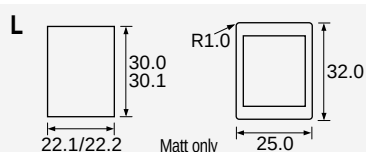
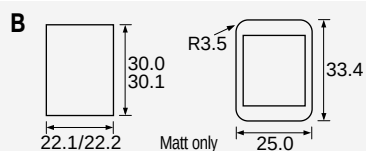
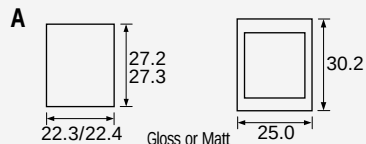
Optional snap-in M441 barrier



C1553AA with M616 guard  
Cut-out 22.0/22.1x29.4/29.5  
Guard accepts "A" body only

## BODY

Panel cut-out \* Flange  
Cut-outs must be punched in the direction of insertion



## OPTIONS

**Finish** Matt is standard

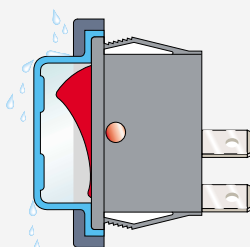
**Colour** Call factory for custom colours.  
A full range is available for large orders

**Legend printing** Select from the examples or  
call factory for custom legends

**Lamp voltage** Call factory for details

**Blanking plates A0494** Dummy units  
to fill unused panel holes

**Protective cover** (designed to IP65)  
Snaps on to A, L, Q or T bodies  
(add G after body in cat no). This reduces  
panel thickness by 1mm.

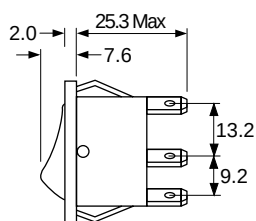


Panel sealing washer W42 is available for  
the above body sizes but reduces panel  
thickness by a further 0.8mm.  
Covers are not suitable for momentary types.

**Arcshield**  
Hides switching arc

For all options call the factory

## DIMENSIONS (mm)



Terminal spacing - Poles 10.2 between centres

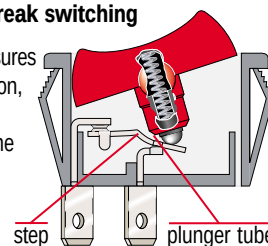
## Panel thickness

**A,Q** 0.75 to 3.3mm  
**L,B,T** 0.75 to 2.5mm  
**R** 0.75 to 3.0mm

\* For cut-out details  
on momentary switches  
call the factory

## 1350 High inrush, positive break switching

The 1350 series mechanism ensures  
contact welds formed at switch-on,  
are positively separated by the  
plunger tube acting directly on the  
step in the moving contact.



## Examples of printing



EN602A



EN730



EN822

# 1500 Twin Units Switches and Indicators 16A 250Vac



16(4)A 250Vac T125



UL CSA 16A 250Vac

UL CSA (2 posn) 250Vac 1hp, 125Vac 1/2hp, (3 posn) 250 Vac 1/2hp, 125Vac 1/4hp

UL 85°C, file E45221, CSA file LR10990

**In house test**

Inrush 36A to EN61058-1 & 20A 28Vdc

For versions with High Inrush or for 50,000 operations, see pages 20 and 26

3mm contact gap except where marked  $\mu$

Technical data on pages 4 & 5 (switches), 66 (indicators)

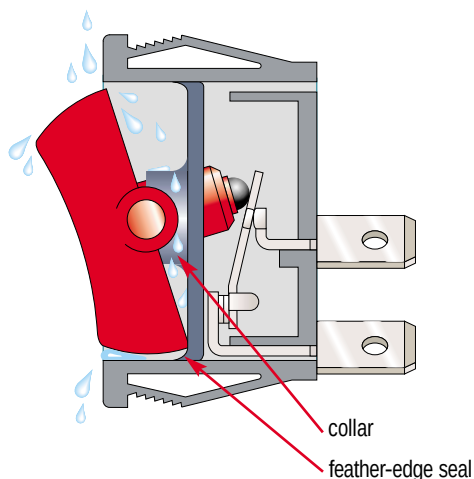
**For twin units repeat the order details for both the left and right sides**

**C 1500 A / C 1510 A L ---**

TERMINAL FUNCTION ROCKER TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

| TERMINAL                                                                                                                                                  | FUNCTION                                                                                                                                                                                                                                                                                                                                                                                                                                            | ROCKER                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8<br><b>H</b><br><br>4.8 x 0.8<br><b>K</b><br><br>2.8 x 0.8<br><b>T</b><br><br>Ø2.1<br>Solder<br><b>X</b><br><br>4.0<br>PCB 0.8Sq | Approvals & ratings vary with function<br>On Off Switches - ON when pressed over terminal 1 or 4<br><br><br><b>1500</b> ON - OFF<br><br><br><b>1510 <math>\mu</math></b> ON - ON<br><small>HP rating N/A</small><br><br><br><b>1520 <math>\mu</math></b> ON - OFF - ON<br><small>125V &amp; 250V 1/2 HP, 125V H terminal rated T100 only</small><br><br><br><b>0430</b> Indicator<br><small>X terminal N/A</small><br>Technical data on page 66<br> | <b>A</b> Softline (Matt)<br><br><br><b>B</b> Softline splashproof (Matt)<br><br><br><b>W</b> Curved splashproof (Matt)<br><br><br><b>X</b> Two colour (Matt) (not momentary)<br>ON - OFF only<br><br><br><b>A</b> Softline lens (Matt) (Indicator)<br> |

## Enhanced Splashproofing



### 1500 W and B splashproof options

Feather edge seals and a close fitting collar protect current carrying parts from moisture.

B option has Hytrel collar/seals for enhanced protection.



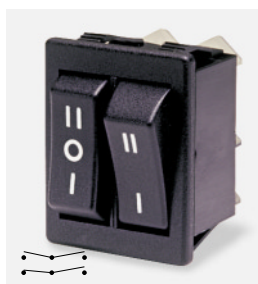
C1500A/C1500AL



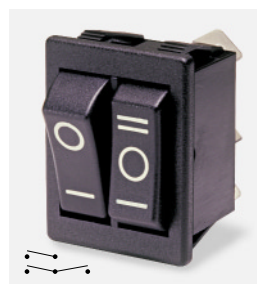
C1500A/C0430AL



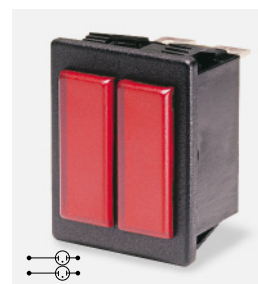
C1500X/C1500XL



C1520A/C1510AL



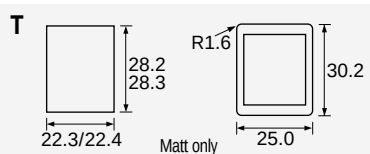
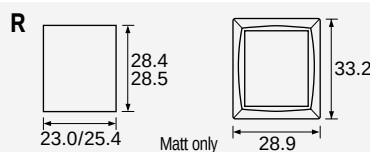
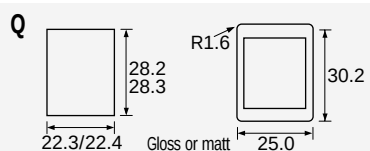
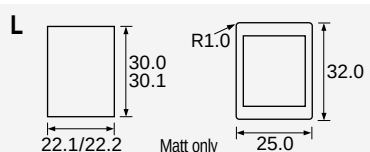
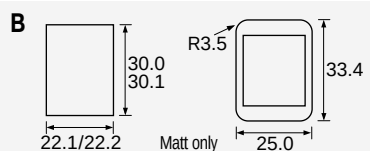
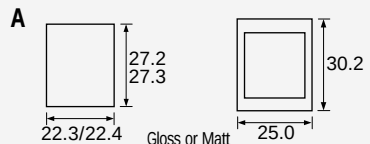
C1500A/C1520AL



C0430A/C0430AL

## BODY

Panel cut-out \* Flange  
Cut-outs must be punched in the direction of insertion



## OPTIONS

**Finish** Matt is standard

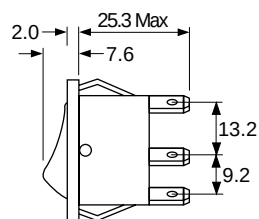
**Colour** Call factory for custom colours.  
A full range is available for large orders

**Legend printing** Call factory for custom legends. State if a legend is to appear on the right or left hand unit (viewed from the front)

**Lamp voltage** Call factory for details

**Arcshield**  
Hides switching arc

## DIMENSIONS (mm)



Call the factory for terminal spacing details

### Panel thickness

**A,Q** 0.75 to 3.3mm  
**L,B,T** 0.75 to 2.5mm  
**R** 0.75 to 3.0mm

\* For cut-out details on momentary switches call the factory

### Twin unit terminal numbering

The first 6 digits of the catalogue number refer to the left hand unit when looking at the front. (This has terminal nos. 4, 5 & 6)

### Examples of printing



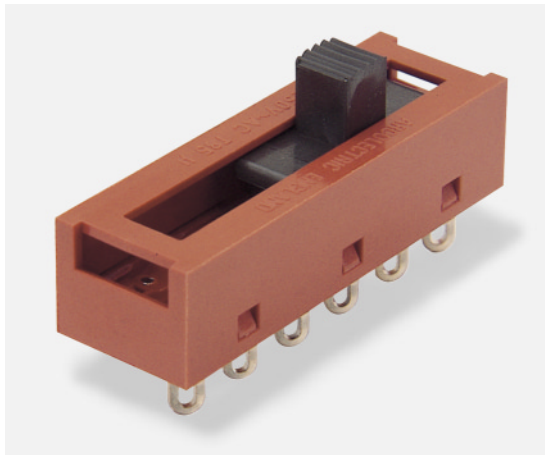
EN602A



EN730

For all options call the factory

# 2000 Slide Switches - up to 5 position 10A 250Vac



10A 250Vac T85  
6(3)A 250Vac T85



UL CSA 16A 250Vac Non Inductive  
UL CSA 4A 300Vac  
UL65°C, file no. E45221, CSA file no. LR10990

μ contact gap

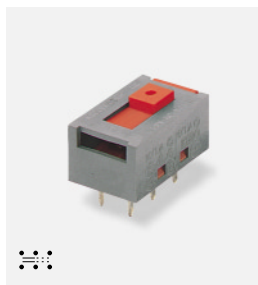
Please specify: Standard action (SP116) or Light action (SP118)  
2000 series lubrication is inorganic and does not degrade plastics

Technical data on pages 4 & 5

**T 2 2 20 5 C ---**

TERMINAL SERIES POSITIONS CIRCUIT SLIDER BODY PRINT, COLOUR, ETC

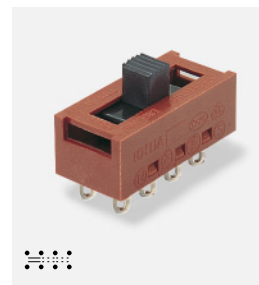
| TERMINAL                                                                                                    | SERIES | POS'N                      | CIRCUIT<br><small>Viewed from back</small> | SLIDER                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|--------|----------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>K</b><br><br>2.0<br>7.0<br>1.3<br>2.8 x 0.8                                                              | 2      | 2 ⬆<br>Switching positions | 10<br><br>20<br><br>30<br><br>40<br>       | <b>0</b><br><br>6<br><br><b>D</b><br><br><b>L</b> Limited travel on 2 pos<br>                                      |
| <b>R</b><br><br>Ø1.2<br>3.6<br>2.8 x 0.8                                                                    |        |                            | 10<br><br>20<br><br>30<br><br>40<br>       | <b>1</b> Not 2 position<br><br><b>7</b><br><br><b>E</b> Limited travel on 2 pos<br><br><b>N</b><br>                |
| <b>T</b><br><br>2.6<br>6.0<br>1.6<br>Solder                                                                 |        | 3 ⬆<br>Switching positions | 10<br><br>20<br><br>30<br><br>40<br>       | <b>2</b><br><br><b>9</b><br><br><b>G</b> Not 2 position<br><br><b>P</b> Limited travel on 2 pos<br>                |
| <b>X</b><br><br>1.6<br>5.6<br>PCB 0.8 Sq.                                                                   |        |                            | 10<br><br>20<br><br>30<br><br>40<br>       | <b>3</b><br><br><b>A</b><br><br><b>H</b><br><br><b>R</b><br>                                                       |
| <b>Y</b><br><br>2.6<br>5.6<br>PCB 0.8 Sq.<br>For mounting stability switches have extra "support" terminals |        | 4 ⬆<br>Switching positions | 10<br><br>20<br><br>30<br><br>40<br>       | <b>4</b><br><br><b>B</b> Not 2 position<br><br><b>J</b> Not 2 position<br><br><b>S</b> Limited travel on 2 pos<br> |
| * Nominal - Dimension varies with body type. For exact figure call factory                                  |        |                            | 10<br><br>20<br><br>30<br><br>40<br>       | <b>5</b> Also with legend<br><br><b>C</b><br><br><b>K</b> Limited travel on 2 pos<br><br><b>T</b><br>              |



X22205C ---



T2220EC ---



T23206A ---



T24306A ---



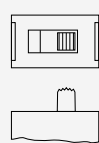
T25302A ---



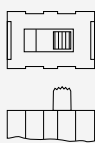
T25100A ---

## BODY

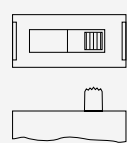
### C 2 positions



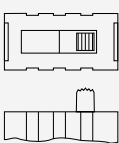
### H 2 positions



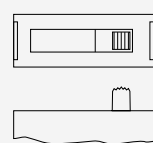
### A 3 positions



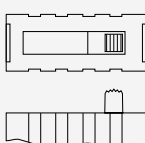
### H 3 positions



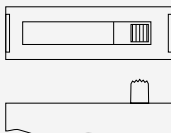
### A 4 positions



### H 4 positions



### A 5 positions



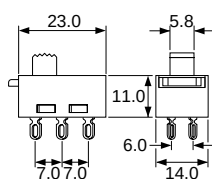
## OPTIONS

### Colour

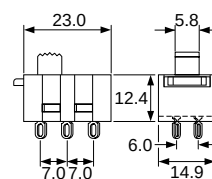
For custom slider colours call the factory.  
A full range is available for large orders

## DIMENSIONS (mm)

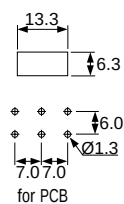
### 2 Position C body



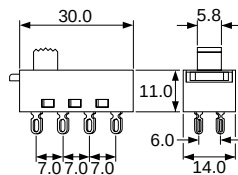
### 2 Position H body



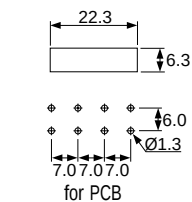
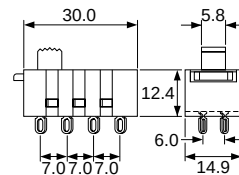
### Cut-out/PCB Matrix



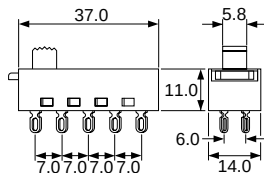
### 3 Position A body



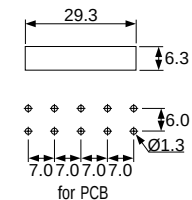
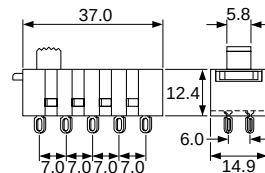
### 3 Position H body



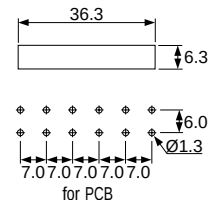
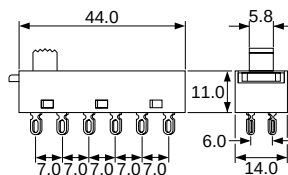
### 4 Position A body



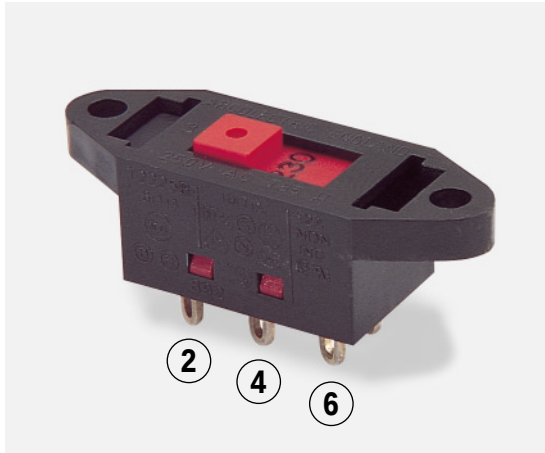
### 4 Position H body



### 5 Position A body



# 2000 Slide Switches - Snap-in & 2 hole fixing 10A 250Vac



10 A 250Vac T85  
6(3)A 250Vac T85



UL CSA 16A 250Vac Non Inductive  
UL CSA 4A 300Vac  
UL65°C, file no. E45221, CSA file no. LR10990

μ contact gap

Please specify: Standard action (SP116) or light action (SP118)

2000 series lubrication is inorganic and does not degrade plastics

Technical data on pages 4 & 5

115/230 is preferred legend

**T 2 2 20 5 B ---**

TERMINAL SERIES POSITIONS CIRCUIT SLIDER BODY PRINT, COLOUR, ETC

| TERMINAL                                                                                                                                                                    | SERIES | POS'N                      | CIRCUIT                             | SLIDER                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>K</b><br><br>2.8 x 0.8                                                                                                                                                   | 2      | 2 ⇕<br>Switching positions | <b>10</b><br><br>5 3 1<br>6 4 2     | <b>0</b> 2 Pos B Body only<br><br>5.8Sq<br>21.0<br>6.0                                               |
| <b>R</b><br><br>2.8 x 0.8                                                                                                                                                   |        |                            | <b>20</b><br><br>5 3 1<br>6 4 2     | <b>6</b> 2 & 3 Pos B Body only<br><br>5.8Sq<br>15.5<br>6.0                                           |
| <b>T</b><br><br>Solder                                                                                                                                                      |        |                            | <b>30</b><br><br>5 3 1<br>6 4 2     | <b>2</b> 2 Pos B Body only<br><br>5.8Sq<br>21.0<br>1.7<br>Ø2.0 Hole                                  |
| <b>X</b><br><br>PCB 0.8 Sq.<br>For mounting stability switches have extra "support" terminals<br>* Nominal - Dimension varies with body type. For exact figure call factory |        |                            | <b>40</b><br><br>5 3 1<br>6 4 2     | <b>7</b> 2 & 3 Pos B Body only<br><br>5.8Sq<br>15.5<br>4.0                                           |
|                                                                                                                                                                             | 3      | 3 ⇕<br>Switching positions | <b>10</b><br><br>7 5 3 1<br>8 6 4 2 | <b>3</b> 2 & 3 Pos B Body only<br><br>5.8Sq<br>11.0<br>15.5<br>2.4 Slot                              |
|                                                                                                                                                                             |        |                            | <b>20</b><br><br>7 5 3 1<br>8 6 4 2 | <b>8</b> E Body only Legend optional<br><br>4.0<br>18.4<br>8.0                                       |
|                                                                                                                                                                             |        |                            | <b>30</b><br><br>7 5 3 1<br>8 6 4 2 | <b>E</b> 2 Pos B Body only Limited travel on 2 pos<br><br>7.0<br>8.2<br>21.0<br>2.0 Blade<br>5.8     |
|                                                                                                                                                                             |        |                            | <b>40</b><br><br>7 5 3 1<br>8 6 4 2 | <b>N</b> 2 Pos B Body only<br><br>4.2<br>7.5<br>21.0<br>5.8                                          |
|                                                                                                                                                                             | 4      | 4 ⇕<br>Switching positions | <b>10</b><br><br>7 5 3 1<br>8 6 4 2 | <b>4</b> 2 & 3 Pos B Body only<br><br>Ø2.5<br>3.0<br>15.5<br>5.8Sq                                   |
|                                                                                                                                                                             |        |                            | <b>20</b><br><br>7 5 3 1<br>8 6 4 2 | <b>9</b> 2 & 3 Pos B Body only<br><br>5.8Sq<br>15.5<br>3.5                                           |
|                                                                                                                                                                             |        |                            | <b>30</b><br><br>7 5 3 1<br>8 6 4 2 | <b>H</b> 2 Pos B Body only<br><br>5.7Sq<br>21.0<br>4.7                                               |
|                                                                                                                                                                             |        |                            | <b>40</b><br><br>7 5 3 1<br>8 6 4 2 | <b>P</b> 2 & 3 Pos B Body only Limited travel on 2 pos<br><br>7.7<br>4.0<br>15.5<br>5.6              |
|                                                                                                                                                                             | 5      | 5 ⇕<br>Switching positions | <b>10</b><br><br>7 5 3 1<br>8 6 4 2 | <b>5</b> 2 Pos B Body only Also with legend<br><br>5.8Sq<br>1.0<br>21.0<br>Ø2.0 Hole                 |
|                                                                                                                                                                             |        |                            | <b>20</b><br><br>7 5 3 1<br>8 6 4 2 | <b>A</b> 2 Pos B Body only<br><br>5.8Sq<br>9.5<br>21.0                                               |
|                                                                                                                                                                             |        |                            | <b>30</b><br><br>7 5 3 1<br>8 6 4 2 | <b>K</b> 2 & 3 Pos B Body only Limited travel on 2 pos<br><br>8.0<br>5.4<br>15.5<br>2.3 Blade<br>5.8 |
|                                                                                                                                                                             |        |                            | <b>40</b><br><br>7 5 3 1<br>8 6 4 2 | <b>R</b> 2 & 3 Pos B Body only<br><br>Ø5.0<br>2.4<br>15.5<br>5.8                                     |
|                                                                                                                                                                             | 6      | 6 ⇕<br>Switching positions | <b>10</b><br><br>7 5 3 1<br>8 6 4 2 | <b>C</b> E Body & 2 & 3 Pos B Body only<br><br>5.8Sq<br>13.5<br>2.3<br>Ø2.0 Hole                     |
|                                                                                                                                                                             |        |                            | <b>20</b><br><br>7 5 3 1<br>8 6 4 2 | <b>L</b> 2 & 3 Pos B Body only Limited travel on 2 pos<br><br>8.0<br>7.9<br>15.5<br>2.3 Blade<br>5.8 |
|                                                                                                                                                                             |        |                            | <b>30</b><br><br>7 5 3 1<br>8 6 4 2 | <b>S</b> Limited travel on 2 pos 2 & 3 Pos B Body only<br><br>8.0<br>9.0<br>15.5<br>2.2 Blade<br>5.8 |
|                                                                                                                                                                             |        |                            | <b>40</b><br><br>7 5 3 1<br>8 6 4 2 | <b>T</b> 2 & 3 Pos B Body only<br><br>5.8Sq<br>4.6<br>15.5                                           |



T22208E ---



T22308E ---



T2230MF ---



T22205B ---



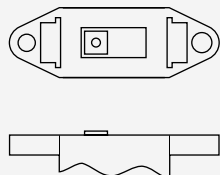
T22305B ---



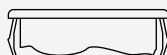
T23204B ---

## BODY

### B With fixing holes



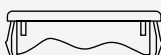
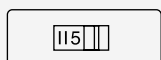
### E Snap-in



Cut-outs must be punched in the direction of insertion

### F Snap-in

(single pole ON OFF only)



Cut-outs must be punched in the direction of insertion

## OPTIONS

### Colour

For custom slider colours call the factory.  
A full range is available for large orders

Standard body colour is black

### Legend printing

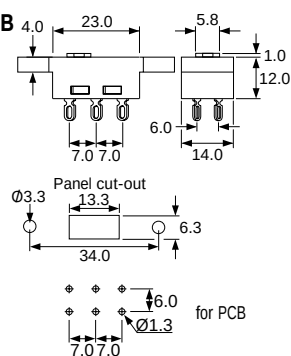
A wide range is available

For all options call the factory

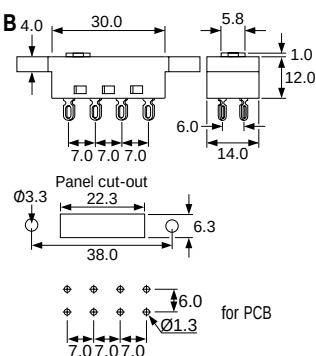
## DIMENSIONS (mm)

## Cut-out / PCB Matrix

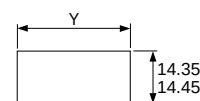
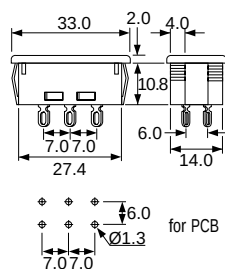
### 2 Pos B



### 3 Pos B

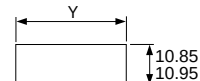
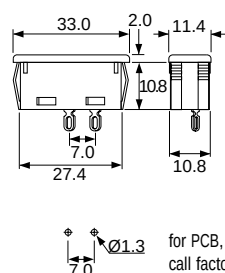


### 2 Pos E



| Panel thickness | Dim. Y      |
|-----------------|-------------|
| 0.8-1.2         | 29.75/29.85 |
| 1.63            | 30.15/30.25 |
| 2.0             | 30.35/30.45 |
| 2.5             | 30.55/30.65 |

### 2 Pos F



| Panel thickness | Dim. Y      |
|-----------------|-------------|
| 0.8-1.2         | 29.75/29.85 |
| 1.63            | 30.15/30.25 |
| 2.0             | 30.35/30.45 |
| 2.5             | 30.55/30.65 |

for PCB, call factory for details

# 8300 Push Button Switches 16A 250Vac



16(4)A 250Vac T85, 1E4 (10,000 Operations)  
12(2)A 250Vac T105, 1E4 (10,000 Operations)  
8(8)A 250Vac T105, 5E4 (50,000 Operations)  
6(6)A 250Vac T125, 5E4 (50,000 Operations)



12A 250Vac DP, 13A 250Vac SP  
250Vac 1hp, 125Vac 1/2hp  
UL 85°C, file E45221, CSA file LR10990

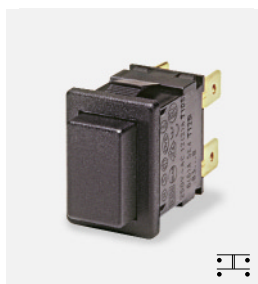
3mm contact gap

Technical data on pages 4 & 5

**H 8353 J E ---**

TERMINAL FUNCTION ACTUATOR BODY PRINT, COLOUR, ETC

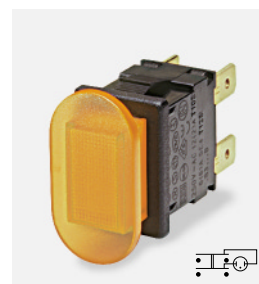
| TERMINAL                                                                                                                                                                                                                                                                                                                                             | FUNCTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ACTUATOR                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>C</b></p> <p>6.3 x 0.8</p> <p><b>H</b></p> <p>4.8 x 0.8</p> <p><b>A</b></p> <p>As "H" but right angle 4.8 x 0.8</p> <p><b>K</b></p> <p>2.8 x 0.8</p> <p><b>T</b></p> <p>2.8 x 0.8</p> <p>Solder</p> <p><b>X</b></p> <p>4.5 x 0.8</p> <p>PCB 0.8 Sq</p> <p><b>V</b></p> <p>3.7 x 0.8</p> <p>Dual pin PCB<br/>(Call factory for matrix dims)</p> | <p>Approvals &amp; ratings vary with function<br/>Single pole switches use terminals 1 &amp; 2 (&amp; 3)</p> <p><b>8300</b> ♦ ON - OFF Single pole</p> <p><b>8301</b> ♦ ON - OFF (momentary ON) Single pole</p> <p><b>8303</b> ♦ ON - OFF with light Single pole</p> <p><b>8304</b> ♦ ON - OFF (momentary ON) with light Single pole</p> <p><b>8350</b> ♦ ON - OFF Double pole</p> <p><b>8351</b> ♦ ON - OFF (momentary ON) Double pole</p> <p><b>8353</b> ♦ ON - OFF with light Double pole</p> <p><b>8354</b> ♦ ON - OFF (momentary ON) with light Double pole</p> | <p><b>A</b> Standard actuator</p> <p><b>D</b> Custom profile actuator</p> <p><b>H</b> Slotted for custom actuators<br/>Slots for snap-in buttons</p> <p><b>C</b> Square lens</p> <p><b>E</b> Radiused actuator</p> <p><b>F</b> Small round actuator</p> <p><b>J</b> Smooth curved actuator</p> <p>All actuators except D &amp; H available lit</p> |



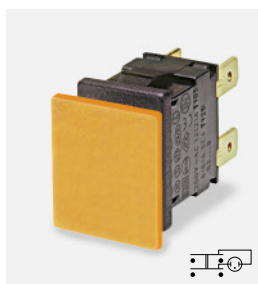
C8350AB ---  
T8350AB ---



H8353JE ---  
T8353JE ---



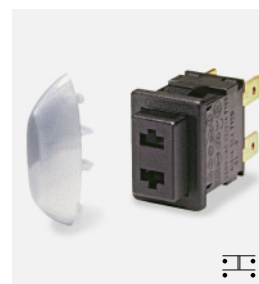
H8353EB ---  
T8353EB ---



H8353CB ---  
T8353CB ---



H8350DB ---  
T8350DB ---



H8350HB ---  
Example of actuator

## BODY

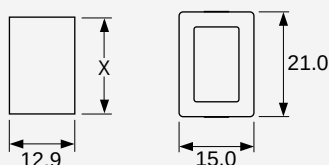
Panel cut-out Flange  
Cut-outs must be punched in the direction of insertion

**B** Standard body

**D** As B body but with PCB support peg

**E** Softline style body with radiused bezel

**F** As E body but with PCB support peg



Dimensions for snap-in fixing

| Panel thickness | Dimension X |
|-----------------|-------------|
| 0.75-1.24       | 19.1/19.2   |
| 1.25-1.99       | 19.3/19.4   |
| 2.00-3.00       | 19.7/19.8   |

## OPTIONS

### Finish

Matt finish standard except on J and D actuators which are gloss

### Colour

Call factory for custom colours  
A full range is available for large orders

### Legend printing

Select from the examples or call factory for custom legends

### Special buttons

Some of the many options are shown  
Call the factory for the full range

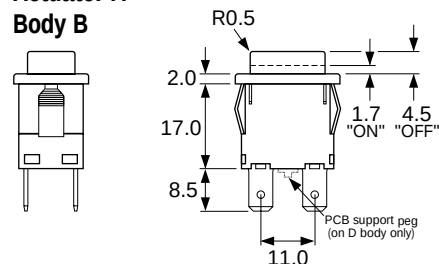
### L167 Protective cover (designed to IP65)



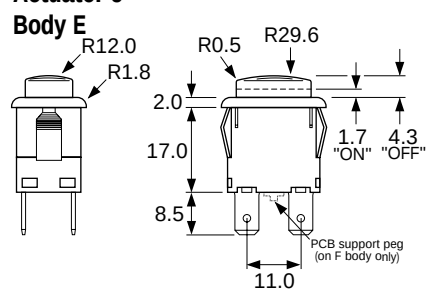
Snap on to switch bodies fitted with "A" or "J" style actuators but reduces panel thickness by 0.8mm

## DIMENSIONS (mm)

### Actuator A Body B



### Actuator J Body E



Spacing between centre of terminals 1 & 3 or 2 & 4 is 10.0mm

## Examples of printing



EN1153



EN1152

# 8200 Push Button Switches 16A 250Vac



16(4)A 250Vac T85, 1E4 (10,000 Operations)  
12(2)A 250Vac T105, 1E4 (10,000 Operations)  
8(8)A 250Vac T105, 5E4 (50,000 Operations)  
6(6)A 250Vac T125, 5E4 (50,000 Operations)



12A 250Vac  
250Vac 1hp, 125Vac 1/2hp  
UL 85°C, file E45221, CSA file LR10990

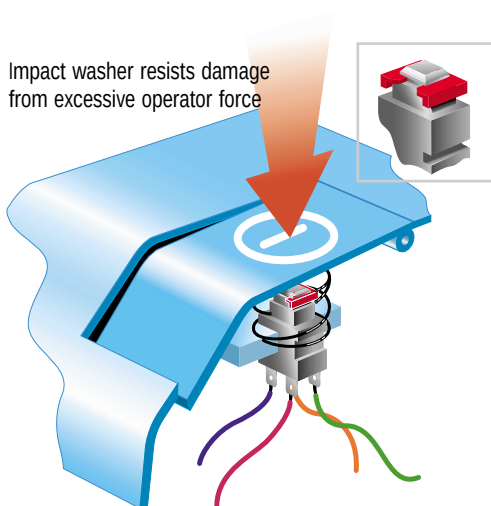
3mm contact gap  
Technical data on pages 4 & 5

**H 8200 A A ---**  
 \_\_\_\_\_  
 TERMINAL    FUNCTION    ACTUATOR    BODY    OPTIONS

| ▶ TERMINAL                                                            | ▶ FUNCTION                                          | ▶ ACTUATOR                                                                                 |
|-----------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                                             |                                                     | <b>A</b> Standard actuator for snap-on custom adaptors<br>                                 |
| <b>H</b><br><br>4.8 x 0.8                                             | <b>8200</b> ON - OFF Single pole<br>                | <b>B</b> Flat top actuator<br>                                                             |
| <b>A</b><br><br>As H, 4.8 x 0.8<br>Right angle                        |                                                     | <b>C</b> Curved top actuator<br>                                                           |
| <b>K</b><br><br>2.8 x 0.8                                             | <b>8201</b> ON - OFF (momentary ON) Single pole<br> | <b>NEW</b><br><b>Examples of possible actuation methods</b><br>Using a Snap on adaptor<br> |
| <b>T</b><br><br>Solder                                                | <b>8250</b> ON - OFF Double pole<br>                | Using a Hinged Actuator<br>                                                                |
| <b>X</b><br><br>PCB 0.8 Sq                                            |                                                     |                                                                                            |
| <b>V</b><br><br>Dual pin PCB 0.8 Sq<br>(Call factory for matrix dims) |                                                     |                                                                                            |
| <b>M</b><br><br>As V, PCB<br>but Right angle                          | <b>8251</b> ON - OFF (momentary ON) Double pole<br> |                                                                                            |

## Alternative Actuator

Impact washer resists damage from excessive operator force



C8250AA ---  
with impact washer M1226



X8201AA ---



K8200AA ---



A8200AA ---



M8200AC ---



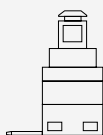
Example of M8200AC



## BODY

### A

Standard body



See dimensioned drawings for details

### C

As standard body but with side support peg for use with M PCB terminals



See dimensioned drawings for details

### D

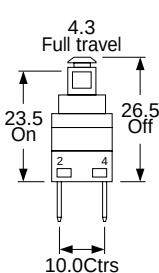
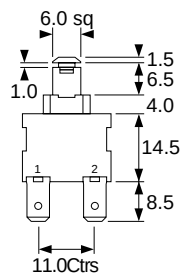
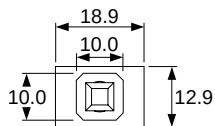
As standard 'A' body but with base support peg for use with V PCB terminals



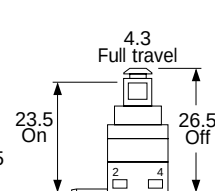
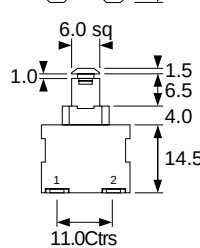
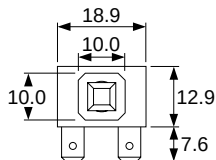
See dimensioned drawings 'A' for details

## DIMENSIONS (mm)

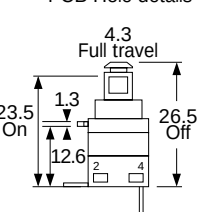
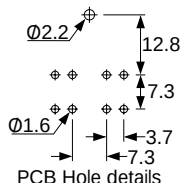
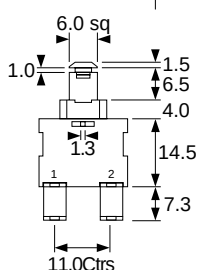
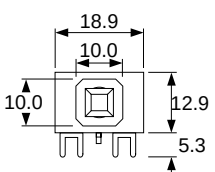
### 'A' body with 'H' 4.8 terminals



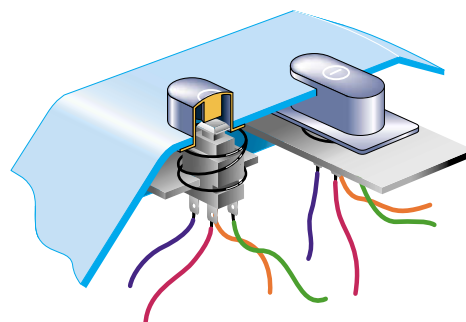
### 'A' body with 'A' right angle 4.8 terminals



### 'C' body with 'M' right angle PCB terminals



### Example of possible mounting styles



# 7000 Push Button Switches 16A 250Vac



16(4)A 250Vac T125  
8(8)A 250Vac T85



UL CSA 16A Non Ind, 250Vac 1hp, 125Vac 1/2hp  
UL65°C, file no. E45221, CSA file no. LR10990



Inrush 35A to EN61058-1 & 16A 28V dc

3mm contact gap

Technical data on pages 4 & 5 (switches), 66 (indicators)

**C 7053 A F ---**  
 TERMINAL    FUNCTION    ROCKER    BODY    PRINT, COLOUR, ETC

| ▶ TERMINAL                       | ▶ FUNCTION  |  |                                                | ▶ ACTUATOR                                                             |
|----------------------------------|-------------|--|------------------------------------------------|------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8<br>9.1 | <b>7000</b> |  | Single pole ON - OFF                           | <b>A Round actuator</b><br>shown in F body<br>                         |
|                                  | <b>7001</b> |  | Single pole ON - OFF (momentary ON)            |                                                                        |
|                                  | <b>7003</b> |  | Single pole ON - OFF with light                |                                                                        |
|                                  | <b>7004</b> |  | Single pole ON - OFF (momentary On) with light | <b>A Round actuator</b><br>shown in G body<br>                         |
|                                  | <b>7050</b> |  | Double pole ON - OFF                           |                                                                        |
|                                  | <b>7051</b> |  | Double pole ON - OFF (momentary On)            | <b>S Rectangular actuator</b><br>Shown in "A" body<br>N/A for 7030<br> |
| <b>H</b><br><br>4.8 x 0.8<br>9.1 | <b>7053</b> |  | Double pole ON - OFF with light                |                                                                        |
|                                  | <b>7054</b> |  | Double pole ON - OFF (momentary On) with light |                                                                        |
|                                  | <b>7030</b> |  | Indicator                                      |                                                                        |
|                                  |             |  |                                                |                                                                        |
|                                  |             |  |                                                |                                                                        |



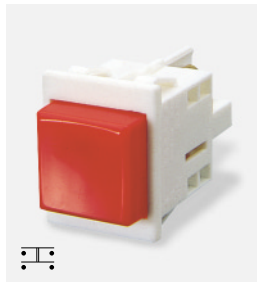
C7000AF ---



C7001AF ---



C7003AF ---



C7050SA ---



C7053AG ---



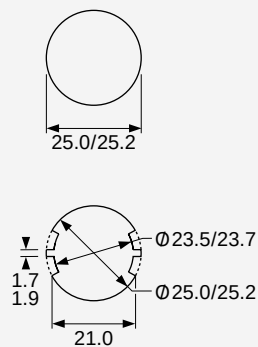
C7030AH ---



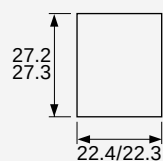
## BODY

Panel cut-outs

**F H G** Body types fit either cut-out



**A**



Cut-outs must be punched in the direction of insertion



## OPTIONS

### Finish

Matt finish is standard on bodies  
Gloss finish is standard on actuators

### Colour

Call factory for custom colours  
A full range is available  
for large orders

### Legend printing

A wide range is available or call the  
factory for custom legends

### Lamp voltage

Call factory for details of other  
available voltages

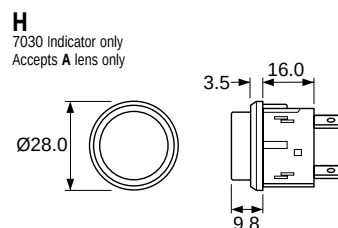
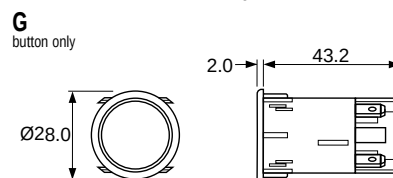
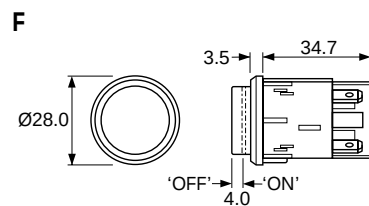
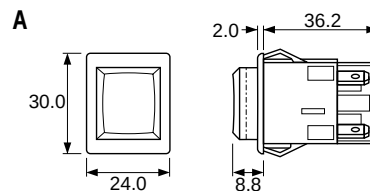
### Protective housing (E)

(designed to IP65)  
Covers are available for round body  
styles, call factory for details

## DIMENSIONS (mm)

### Panel thickness:

**A** 0.8 - 2.5mm  
**F,G,H** 0.8 - 5.0mm



# 1100 Push Button Switches 0.125A 125Vac



UL 0.125A 125Vac  
UL 0.125A 45Vdc  
UL file E45221

**In house test** 0.5A 250Vac T85 5E4 (50,000 Operations)

μ contact gap

Technical data on pages 4 & 5



T1100AA - - -



T1101AA - - -

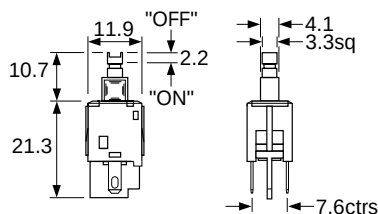
**T 1100 A A - - -**

TERMINAL FUNCTION ACTUATOR BODY OPTIONS

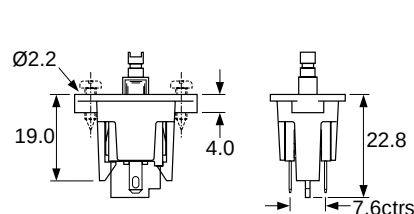
| TERMINAL                              | FUNCTION                                                                                                                          | ACTUATOR                                                                               | BODY                                                                                                                                                                                                                                                                                            |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>T</b><br><br><br><br><br>2.8 x 0.5 | <br><b>1100</b> ♦<br><br><br><b>1101</b> ♦<br><br><br>ON - OFF (alternate) Single pole<br><br>ON - OFF (momentary ON) Single pole | <b>A</b><br>Actuator without button<br><br><br><br><b>B</b><br>Softline button<br><br> | <b>A</b><br>For purpose designed facias and sub-panels<br><br><br><br><b>B</b><br>Snap-in fixing<br><br><br>Panel thickness<br>0.75-1.24<br>1.25-1.99<br>2.00-3.00<br>Dimension X<br>19.1/19.2<br>19.3/19.4<br>19.7/19.8<br><br><b>C</b><br>2 Hole fixing<br><br><br>Ø3.1<br>7.0 Min<br>5.0 Min |

## Dimensions (mm)

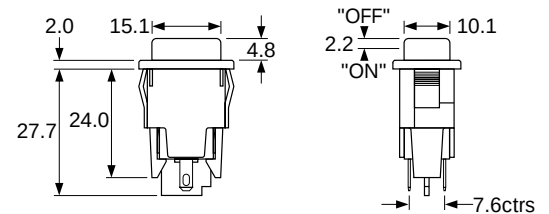
### T1100AA (Enclosure mounting)



### T1100AC (2 Hole Fixing) No.4 self-tapping screws



### T1100BB (Snap-in) Cut-outs must be punched in the direction of insertion



# 0916 - 0920 Push Button Switches 0.5A 250Vac

Self-Wiping - Slow Make & Break

**In house test** 0.5A 250Vac T85

μ contact gap

Technical data on pages 4 & 5



T0916SO--- & T0916LO---



T0916VA---

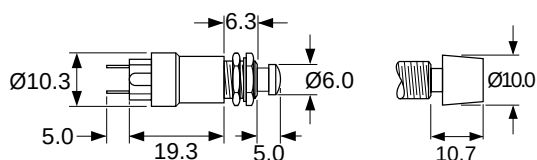
**T 0916 S O ---**

TERMINAL FUNCTION ACTUATOR BODY COLOUR

| TERMINAL                                  | FUNCTION                                                              | ACTUATOR                                                          | BODY                                                                                                                            | OPTIONS                                                                                                                                                   |
|-------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>T</b><br><br><br>3.3 5.0 1.2<br>Solder | <b>0916</b><br><br>Black base<br>SP ON-OFF (momentary ON)             | <b>S</b><br>Small Actuator<br>                                    | <b>O</b><br>for L and S Actuator<br><br>Ø7.1<br>Panel Cut-out<br><br>Panel thickness<br>Both nuts - 2.5mm<br>No backnut - 4.0mm | <b>Finish</b><br>Gloss finish for L and S actuators<br><br><b>Colour</b><br>Call factory for custom colours<br>A full range is available for large orders |
|                                           | <b>0917</b> 50V only<br><br>Brown base<br>SP ON-ON (momentary 1 side) | <b>L</b><br>Large Actuator<br>                                    |                                                                                                                                 |                                                                                                                                                           |
|                                           | <b>0918</b><br><br>White base<br>SP ON-OFF (momentary OFF)            | <b>V</b><br>Vandal Resistant IP66<br>Flat top Stainless steel<br> | <b>A</b><br>for V Actuator (stainless steel)<br>Chamfer profile bezel<br><br>Ø19.2<br>Panel Cut-out<br>Panel thickness - 8.0mm  |                                                                                                                                                           |
|                                           | <b>0919</b><br><br>Black base<br>SP ON-ON (momentary 1 side)          |                                                                   |                                                                                                                                 |                                                                                                                                                           |
|                                           | <b>0920</b><br><br>White base<br>DP ON-OFF (momentary ON)             |                                                                   |                                                                                                                                 |                                                                                                                                                           |

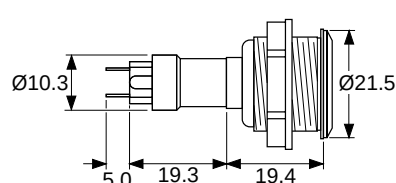
## Dimensions (mm)

### Nylon S and L actuators



Neck thread - 40 TPI Whit. Actuator travel - 2.5 max

### Stainless steel V actuator (IP66)



Neck thread - 26 TPI Whit. Actuator travel - 2.5 max

# 0910 - 0911 Push Button Snap Action Switches 15(4)A 250Vac



15(4)A 250Vac T85



UL 15A, 1/2hp 125-250Vac 85°C,  
UL file E91973, CSA file LR98589

Approvals apply to switch mechanism only (34340350COLO00)  
μ contact gap  
Full rating details and technical data on pages 50 & 51  
Ratings are at full plunger travel



C0911KB ---



C0911VA ---

**C 0911 K B - - -**  
TERMINAL FUNCTION ACTUATOR BODY COLOUR



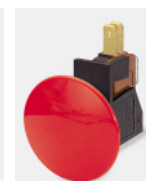
C0911RB ---



C0911PB ---



C0911EB ---

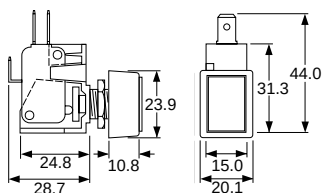


C0911BB ---

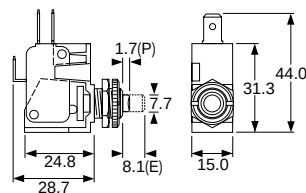
| TERMINAL                          | FUNCTION                                                                                          | ACTUATOR                                                                                                                                                                                                                                         | BODY                                                                                                                                                                                                                                           | OPTIONS                                                                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>12.5<br>6.3 x 0.8 | <b>0910</b><br><br>ON - ON<br>(alternate)<br><br>0910 is available with<br>K and N actuators only | <b>R</b> Rectangular bezel<br><br><b>B</b> Large Contact factory for details<br><br><b>E</b> Long<br><br><b>P</b> Short<br><br><b>K</b> with satin chrome bezel<br><br><b>N</b> with nylon bezel<br><br><b>V</b> Vandal resistant (911 only)<br> | <b>B</b><br>N/A for V Actuator<br><br>Panel Cut-out<br>Panel thickness<br>Both nuts 2.5mm<br>No backnut 4.0mm<br><br><b>A</b><br>Stainless steel chamfer profile bezel<br>for V actuator only<br><br>Panel Cut-out<br>Panel thickness<br>8.0mm | <b>Colour</b><br>Call factory for<br>custom colours<br>A full range is available<br>for large orders<br><br><b>Cover M323</b><br>Available for "P" actuator<br>only<br><br>Covers have internal nylon nut |

## Dimensions (mm)

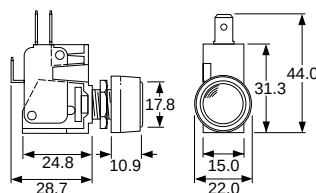
**R**



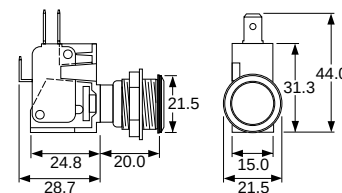
**P & E**



**K & N**



**V Vandal resistant designed to IP66**



# 1900 Vandal Resistant Switches - Designed to IP66



6A 250Vac T85 25E3

2A 250Vac T85 50E3\*



6A 250Vac T85

UL file no. E91973

Approvals apply to switch mechanism only

μ contact gap

Ratings shown are at full plunger travel

Switching mechanisms are snap action (not sealed)

Actuator and bezel are stainless steel

\*See rating details and technical data on pages 48 & 49



K1911VL ---

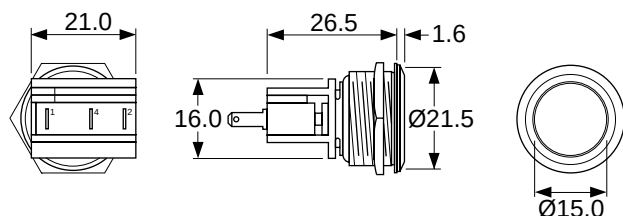
K1961VL ---

**K 1911 V L**  
 TERMINAL FUNCTION ACTUATOR BODY

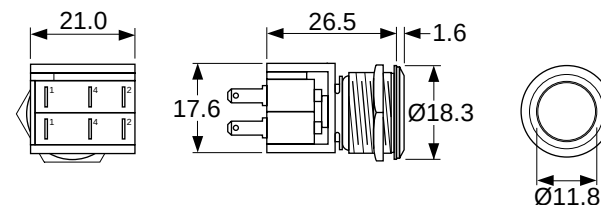
| TERMINAL                                | FUNCTION                                                  | ACTUATOR                               | BODY                                                                                             |
|-----------------------------------------|-----------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>K</b><br><br>2.8 x 0.5<br>7.9        | <b>1911</b><br><br>ON - ON (momentary 1 side) Single pole | <b>V</b><br>Flat top (stainless steel) | <b>A</b><br>Stainless steel<br>Chamfer profile bezel<br><br>Ø19.2<br>Panel thickness up to 4.0mm |
| <b>T</b><br><br>1.14 2.54 3.4<br>Solder | <b>1961</b><br><br>ON - ON (momentary 1 side) Double pole |                                        | <b>L</b><br>Stainless steel<br>Chamfer profile bezel<br><br>Ø16.0<br>Panel thickness up to 4.0mm |
| <b>X</b><br><br>4.57 5.3<br>PCB         |                                                           |                                        |                                                                                                  |

## Dimensions (mm)

### Single pole (K1911VA shown)



### Double pole (K1961VL shown)



# 8300 Vandal Resistant Switches - Designed to IP66



16(4)A 250Vac T85, 1E4 (10,000 Operations)  
12(2)A 250Vac T105, 1E4 (10,000 Operations)  
8(8)A 250Vac T105, 5E4 (50,000 Operations)  
6(6)A 250Vac T125, 5E4 (50,000 Operations)



12A 250Vac DP, 13A 250Vac SP  
250Vac 1hp, 125Vac 1/2hp  
UL 85°C, file E45221, CSA file LR10990

3mm contact gap  
Technical data on pages 4 & 5  
Switching mechanism not sealed

**NEW**



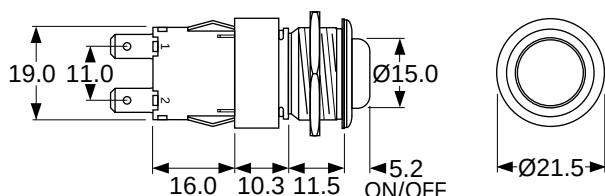
H8300RP ---

**H 8300 R P**  
TERMINAL    FUNCTION    ACTUATOR    BODY

| TERMINAL                                       | FUNCTION                                               | ACTUATOR                                 | BODY                                                                                                                   |
|------------------------------------------------|--------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8    10.1              | <b>8300</b><br><br>ON - OFF (alternate) Single pole    | <b>R</b><br>Raised top (stainless steel) | <b>P</b><br>Stainless steel<br>Soft profile bezel                                                                      |
| <b>H</b><br><br>4.8 x 0.8    8.5               | <b>8301</b><br><br>ON - OFF (momentary ON) Single pole |                                          | <br>Panel thickness 0.75 - 3.0mm<br><br>For details of alternative panel cut-out and bezel diameters, call the factory |
| <b>K</b><br><br>2.6    1.5    8.5<br>Solder    | <b>8350</b><br><br>ON - OFF (alternate) Double pole    |                                          |                                                                                                                        |
| <b>T</b><br><br>2.6    1.5    7.0<br>Solder    | <b>8351</b><br><br>ON - OFF (momentary ON) Double pole |                                          |                                                                                                                        |
| <b>V</b><br><br>3.7Ctrs    4.3<br>Dual pin PCB |                                                        |                                          |                                                                                                                        |
| <b>X</b><br><br>4.5    7.0<br>0.8Sq PCB        |                                                        |                                          |                                                                                                                        |

## Dimensions (mm)

**8300RP** (H terminals shown)



# 0911 Vandal Resistant Switches - Designed to IP66



16(4)A 250Vac T85



UL 16A, 1/2hp 125-250Vac 85°C,  
UL file E91973, CSA file LR98589

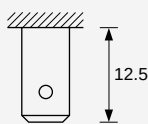
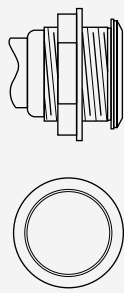
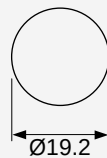
Approvals apply to switch mechanism only (34340350C0L000)  
μ contact gap  
Full rating details and technical data on pages 50 & 51  
Ratings are at full plunger travel



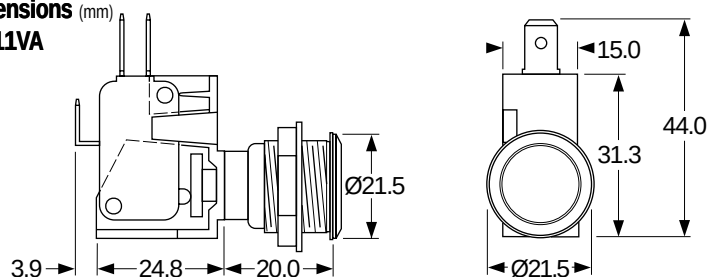
C0911VA ---

**C 0911 V A**

TERMINAL    FUNCTION    ACTUATOR    BODY

| ▶ TERMINAL                                                                                                       | ▶ FUNCTION                                                                                                                              | ▶ ACTUATOR                                                                                                                         | ▶ BODY                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br><br>6.3 x 0.8 | <b>0911</b><br><br><br>ON - ON<br>(momentary 1 side) | <b>V</b><br>Flat top (stainless steel)<br><br> | <b>A</b><br>Stainless steel<br>Chamfer profile bezel<br><br><br>Panel thickness up to 8.0mm |

## Dimensions (mm) C0911VA



# 04102 Push Button Switches 16(4)A 250Vac

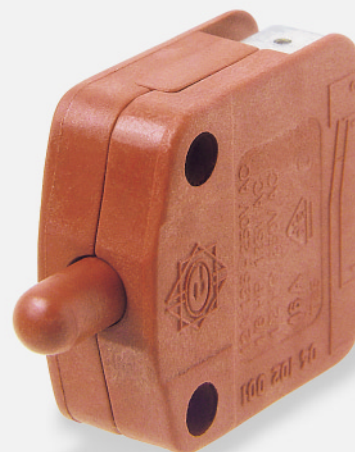
 **D** 16(4)A 250Vac T85 (10,000 operations)

Snap action normally open or closed switching  
Large overtravel allows actuator / button tolerance  
Button shape allows operation by hinged actuators

μ contact gap  
UL94 V1 Button and body  
Complies with UL Glow wire test - 850°C Cat D

Additional technical data on pages 4 & 5

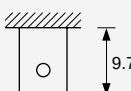
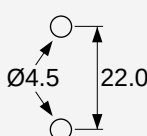
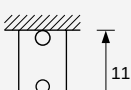
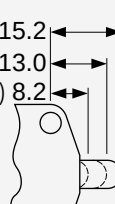
Factored  
product



 04102-001

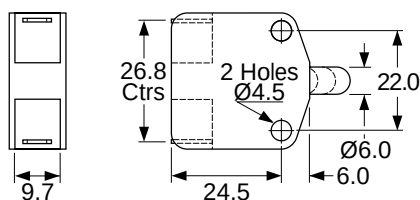
## 04102-001

TERMINAL FUNCTION ACTUATOR BODY

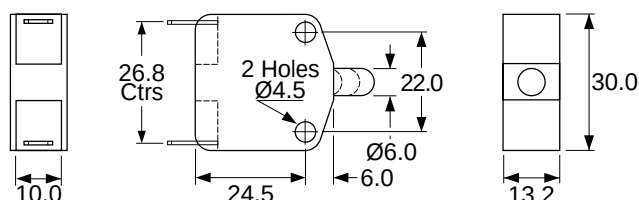
| ▶ TERMINAL                                                                                                                                       | ▶ FUNCTION                                                                                                                                             | ▶ ACTUATOR                                                                                                                                    | ▶ BODY                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>6.3 x 0.8</p> <p>Force when applying connectors ≤ 80N</p> | <p><b>04102-001</b></p>  <p>Single Pole ON-OFF (momentary ON)</p>   |  <p>(Off) 15.0<br/>(Mom On) 12.4<br/>(Full Travel) 8.0</p> | <p>2 Hole fixing</p>  <p>Ø4.5 22.0</p> <p>(shakeproof washers not to be used with fixings)</p> |
|  <p>6.3 x 0.8</p> <p>Force when applying connectors ≤ 80N</p> | <p><b>04102-001R</b></p>  <p>Single Pole ON-OFF (momentary OFF)</p> |  <p>(On) 15.2<br/>(Mom Off) 13.0<br/>(Full Travel) 8.2</p> |                                                                                                                                                                                     |

## Dimensions (mm)

### 04102-001



### 04102-001R



# 0936 - 0938 Push Button Switches 0.5A 250Vac

In house test 0.5A 250Vac  
In house test 0.25A 250Vdc

$\mu$  contact gap  
 Technical data on pages 4 & 5



C0936PC ---



C0938MA ---

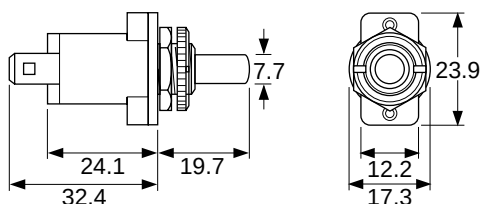
**C 0936 P A ---**

TERMINAL   FUNCTION   ACTUATOR   BODY   OPTION

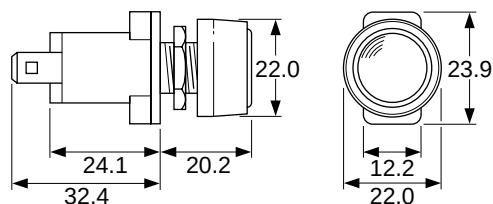
| ▶ TERMINAL                           | ▶ FUNCTION                                        | ▶ ACTUATOR                                                                                                                                                                                          | ▶ BODY                                                                                                                                                                                                           | ▶ OPTIONS                                                                                                                                                                                                                           |
|--------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br><br>8.3<br>6.3 x 0.8 | <b>0936</b><br><br><br>ON - OFF<br>(momentary ON) | <b>P</b><br>Small round push<br><br><br><b>K</b> satin chrome bezel<br><b>M</b> moulded nylon bezel<br>both with large round push<br><br><br>Specify Satin chrome or<br>nylon (black / white) bezel | <b>C</b><br>Nylon top plate and fixing neck<br><br>12.7<br>Back nut must be fitted<br><br><b>A</b><br>Metal top plate and fixing neck<br>For Low Voltage (up to 50V) only<br><br>12.7<br>Back nut must be fitted | <b>Push button finish</b><br>Gloss finish only<br><br><b>Push button colour</b><br>Red, black<br>for other colours call<br>the factory<br><br><b>Cover M327</b><br>Available for "P" actuator<br><br>Covers have internal nylon nut |

## Dimensions (mm)

### 0936 / 0938 P



### 0936 / 0938 K / M



# 290 Series V4 Snap-action Switches Up to 6A 250Vac



6A 250Vac T85 25E3 - \*150g  
2A 250Vac T85 50E3 - \*60g



6A 250Vac T85 - \*150g  
2A 250Vac T85 - \*60g  
UL file no. E91973      \*\* Operating force

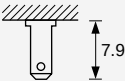
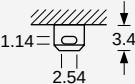
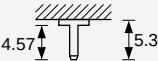
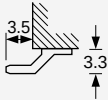
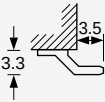
Ratings shown are at full plunger travel  
μ contact gap



For sealed snap-action switches contact the factory



| 29     | 1        | 20          | 150             | CO       | L002     |
|--------|----------|-------------|-----------------|----------|----------|
| SERIES | TERMINAL | CONTACT GAP | OPERATING FORCE | FUNCTION | ACTUATOR |

| ▶ SERIES                | ▶ TERMINAL                                                                                                                       | ▶ CONTACT GAP  | ▶ OPERATING FORCE | ▶ FUNCTION                                                                                                                                                        |  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 29                      | <div>1</div> <div></div> <div>2.8 x 0.5</div> | 20<br>(0.5 mm) | gms               | <div></div> <div>CO</div> <div>ON - (ON)</div> <div>(momentary 1 side)</div> |  |
|                         | <div>2</div> <div></div> <div>Solder</div>    |                | 60                |                                                                                                                                                                   |  |
|                         | <div>3</div> <div></div> <div>PCB</div>       |                |                   |                                                                                                                                                                   |  |
|                         | <div>4</div> <div></div> <div>LH PCB</div>    |                |                   |                                                                                                                                                                   |  |
|                         | <div>5</div> <div></div> <div>RH PCB</div>    |                | 150               |                                                                                                                                                                   |  |
| Viewed from plunger end |                                                                                                                                  |                |                   |                                                                                                                                                                   |  |



293 20 150 CO L000



291 20 60 CO - - - -



294 20 150 CO 0000



292 20 150 CO R000



291 20 150 CO R001



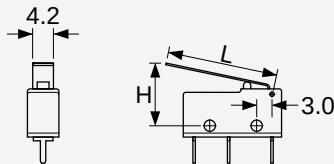
292 20 150 CO 0000



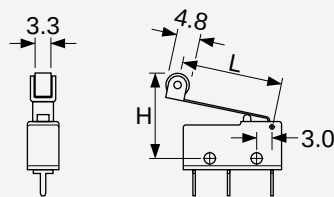
## ACTUATOR

No lever  
**0000**

Plain lever  
**L000**  
**L001**  
**L002**

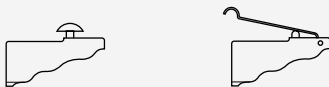


Roller lever  
**R000**  
**R001**  
**R002**

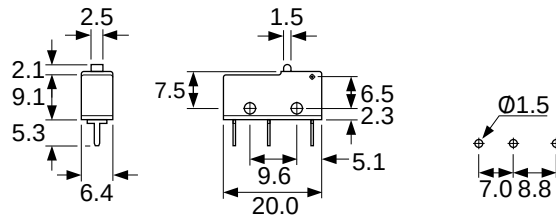


|       | L000  | L001  | L002  | R000  | R001  | R002  |
|-------|-------|-------|-------|-------|-------|-------|
| Dim H | 12.23 | 15.19 | 19.93 | 16.97 | 19.93 | 24.66 |
| Dim L | 17.5  | 30.0  | 50.0  | 15.91 | 28.41 | 48.41 |

Many alternative actuators are available from fully adjustable tooling  
Contact factory for details



## DIMENSIONS (mm)



## TECHNICAL DATA

|                     |                       |
|---------------------|-----------------------|
| Mechanical life     | >5 million operations |
| Temperature rating  | T85°C                 |
| Insulation          | >1,250V               |
| Tracking resistance | PTI KB 250            |

## MECHANICAL DATA

|                       |            |
|-----------------------|------------|
| High at rest point**  | 8.92       |
| Trip point**          | 8.16-8.54  |
| Pre-travel            | 0.38-0.76  |
| Movement differential | 0.15 (max) |
| Overtravel            | 0.6 (min)  |

| Operating force (nominal) | Release force (min) |
|---------------------------|---------------------|
| 60g                       | 10g                 |
| 150g                      | 50g                 |

\*\*Measured from fixing hole centres to top of plunger

## MATERIALS

|                     |                            |
|---------------------|----------------------------|
| Body, lid & Plunger | Glass-filled nylon 6.6, VO |
| Plunger             | Glass-filled nylon 6.6, VO |
| Terminals           | Brass                      |
| Moving contact arm  | Phosphor bronze            |
| Spring              | Stainless steel            |
| Contacts            | Fine silver                |
| Actuator/roller     | Stainless steel/acetal     |

# 340 & 390 Series V3 Snap-action Switches Up to 25(4)A 250Vac



## 340 Series

16(4)A 250Vac T85 50E3 **16A** 125/250Vac 1/2hp **T85\***350g All functions  
 16(4)A 250Vac T85 25E3 **16A** 125/250Vac 1/2hp **T85\***120g All functions  
 10(4)A 250Vac T85 25E3 **10A** 125/250Vac 1/4hp **T85\*** 75g All functions

## 390 Series

25(4)A 250Vac T85 50E3 **22A** 125/250Vac 1hp **T85\***350g NO or NC  
 22(4)A 250Vac T85 50E3 **22A** 125/250Vac 1hp **T85\***120g NO or NC  
 20(4)A 250Vac T85 10E3 **20A** 125/250Vac 1hp **T85\***350g CO  
 16(4)A 250Vac T85 50E3 **16A** 125/250Vac 1/2hp **T85\***120g CO

UL file no. E91973

\*Operating force

Ratings shown are at full plunger travel  
 μ contact gap

**34 3 40 350 NO ZDSO**

SERIES TERMINAL CONTACT GAP OPERATING FORCE FUNCTION ACTUATOR

| SERIES                                          | TERMINAL                                                       | CONTACT GAP           | OPERATING FORCE                | FUNCTION                                         |
|-------------------------------------------------|----------------------------------------------------------------|-----------------------|--------------------------------|--------------------------------------------------|
| <b>34</b><br>(See ratings above for 340 Series) | <b>2</b><br><br>Solder (34 Series)<br>Both end terminals shown | <b>40</b><br>(1.0 mm) | <b>075</b><br>(34 Series only) | <br><b>CO</b><br>ON - (ON)<br>(momentary 1 side) |
|                                                 | <b>2</b><br><br>Solder (39 Series)                             |                       |                                |                                                  |
| <b>39</b><br>(See ratings above for 390 Series) | <b>3</b><br><br>6.3 x 0.8<br>(34 & 39 Series)                  |                       | <b>120</b><br>(34 & 39 Series) | <br><b>NO</b><br>(ON) - OFF<br>(momentary On)    |
|                                                 | <b>5</b><br><br>4.8 x 0.5<br>(34 Series)                       |                       |                                |                                                  |
|                                                 | <b>6</b><br><br>4.8 x 0.8<br>(34 Series)                       |                       | <b>350</b><br>(34 & 39 Series) | <br><b>NC</b><br>ON - (OFF)<br>(momentary Off)   |



343 40 120 CO ZDS1



342 40 120 CO ZD01



343 40 075 CO - - -



346 40 350 NC - - -



346 40 120 NO - - -



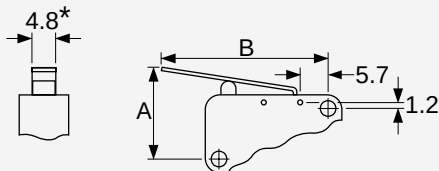
343 40 120 CO L000



## ACTUATOR

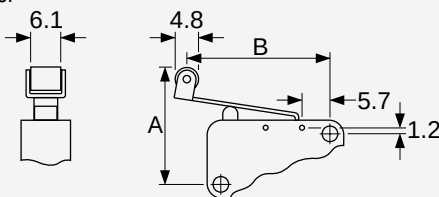
No lever  
**L000**

Plain lever  
**ZD00**  
**ZD01**  
**ZD02**



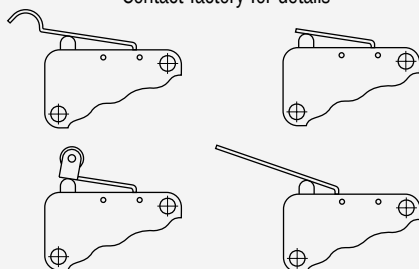
\* 7.0 & 9.5mm wide levers also available - contact factory

Roller lever  
**ZDS0**  
**ZDS1**

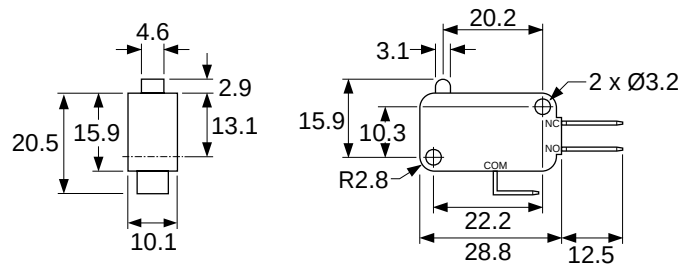


|       | ZD00 | ZD01 | ZD02 | ZDS0 | ZDS1 |
|-------|------|------|------|------|------|
| Dim A | 17.0 | 18.6 | 25.8 | 22.2 | 23.9 |
| Dim B | 22.6 | 33.9 | 84.4 | 19.7 | 31.7 |

Many alternative actuators are available from fully adjustable tooling.  
Contact factory for details



## DIMENSIONS (mm) (3 terminals shown)



## TECHNICAL DATA

|                     |                        |
|---------------------|------------------------|
| Mechanical life     | >10 million operations |
| Temperature rating  | T85°C                  |
| Insulation          | >1,250V                |
| Tracking resistance | PTI KB 300             |

## MECHANICAL DATA

|                       |            |
|-----------------------|------------|
| High at rest point**  | 15.93      |
| Trip point**          | 14.4-15.17 |
| Pre-travel            | 0.76-1.52  |
| Movement differential | 0.25 (max) |
| Overtravel            | 1.32 (min) |

| Operating force (nominal) | Release force (min) |
|---------------------------|---------------------|
| 75g                       | 25g                 |
| 120g                      | 40g                 |
| 350g                      | 100g                |

\*\*Measured from lower hole centre to top of plunger.

## MATERIALS

|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| Body, lid & Plunger | Glass-filled nylon 6.6, VO                                                      |
| Terminals           | Brass (silver plated for solder) - 34 Series<br>Brass silver plated - 39 Series |
| Rocker arm          | Brass silver plated                                                             |
| Moving contact      | Phosphor bronze silver plated                                                   |
| Spring              | Beryllium copper                                                                |
| Contacts            | Fine silver (34 Series), silver cadmium oxide (39 Series)                       |
| Actuator/roller     | Stainless steel/acetal                                                          |
| Dummy contacts      | Glass-filled nylon 6.6, VO                                                      |

# Safety Cut-out Switches 16A 250Vac



C0320AA  
16.1A 250Vac



C0320BB  
16(4)A 250Vac 1/2hp



μ contact gap

These safety switches are assembled with snap-action switches shown on pages 50 and 51

Technical data, alternative ratings and approvals are listed on the above pages



Safety requirements for Portable Heaters can be met by the fitting of a safety cut-out switch  
The heater will then turn off if overturned

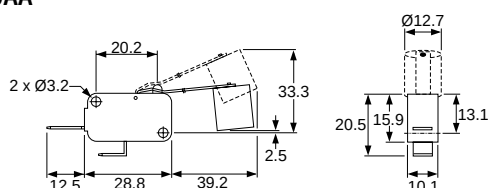
## C0320AA - - -

TERMINAL FUNCTION ACTUATOR MOUNTING

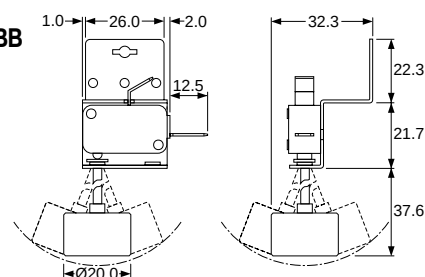
| ORDER CODE | TERMINAL | FUNCTION                        | ACTUATOR | MOUNTING |
|------------|----------|---------------------------------|----------|----------|
| C0320AA    |          | <br>ON - OFF<br>(momentary OFF) |          |          |
| C0320BB    |          | <br>ON - OFF<br>(momentary OFF) |          |          |

Dimensions (mm) (for assemblies fitted with 340 & 390 series switches)

### C0320AA



### C0320BB



# 0305 Combined Switch / Lampholder for Freezers

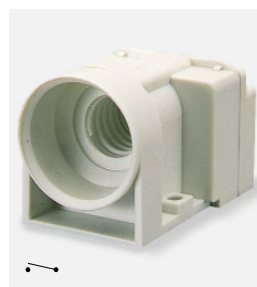


2A 250Vac 25 T 85

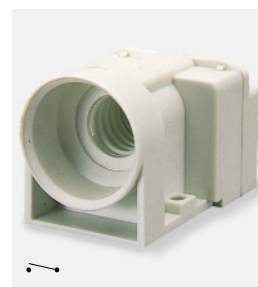


UL15W 125/250Vac  
UL 65°C, file E116391

For approval status on versions  
0306 and 0308 call the factory  
Switched units have  $\mu$  contact gap  
Technical data on pages 4 & 5



C0305RT - - -



C0305LT - - -

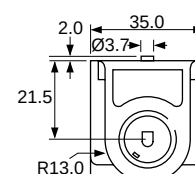
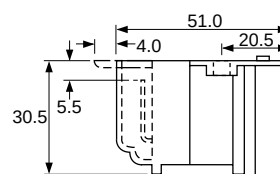
**C 0305 R T - - -**

TERMINAL    FUNCTION    MOUNTING    BODY    COLOUR, ETC

| ► TERMINAL                | ► FUNCTION                                                                                                                   | ► MOUNTING                                                                                                              | ► BODY                                                                                                          | ► OPTIONS                                                                                   |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8 | <b>0305 (E14)</b><br><br>ON - OFF<br>Switch and Lampholder<br><br><b>0306 (E12)</b><br><br>ON - OFF<br>Switch and Lampholder | <b>L</b><br>For Left hinged lid<br><i>for 0305/0306 switches<br/>not for 0307 lampholders</i><br><br>View from bulb end | <b>T</b><br>Body without flange<br><i>for 0305/0306 switches</i><br><br>Top view                                | <b>Colour</b><br>Call factory for colours.<br>A full range is available<br>for large orders |
| <b>H</b><br><br>4.8 x 0.8 | <b>0307 (E14)</b><br><br>Lampholder only<br>(No Switch)<br><br><b>0308 (E12)</b><br><br>Lampholder only<br>(No Switch)       | <b>R</b><br>For Right hinged lid<br><i>for 0307 lampholders<br/>or 0305/0306 switches</i><br><br>View from bulb end     | <b>S</b><br>Body with rear flange<br><i>for 0307 lampholders and<br/>for 0305/0306 switches</i><br><br>Top view |                                                                                             |

## Dimensions (mm) and Properties

The mechanism of this switch/lampholder does not contain mercury and may be safely used in food storage equipment.  
When fitted to the lid of a freezer storage cabinet, the switch will operate the lamp when the lid is opened to the angle of tilt shown in the drawing.



# 0055 Refrigerator Door Switches



## 0055 & 0056

2(0.2)A 250Vac 25T125 5E4  
(50,000 operations)

μ contact gap

Technical data on pages 4 & 5



C0055RB ---



C0056RB ---

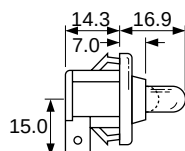
**C 0055 R B - - -**

TERMINAL FUNCTION ACTUATOR BODY COLOUR, ETC

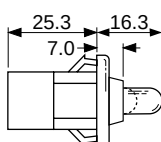
| ▶ TERMINAL                                   | ▶ FUNCTION                                     | ▶ ACTUATOR   | ▶ BODY                                                                                             | ▶ OPTIONS                                                                                                   |
|----------------------------------------------|------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8<br>9.1             | <b>0055</b><br><br>ON - OFF<br>(momentary OFF) | <b>R</b><br> | <b>B</b><br>Panel cut-out<br><br>Panel thickness<br>0055 1.0 - 1.6<br>0056 1.0 - 2.6<br>Flange<br> | <b>Finish</b><br>Gloss finish only<br><b>Colour</b><br>White is standard<br>Call factory for custom colours |
| <b>H</b> (0056 only)<br><br>4.8 x 0.8<br>9.1 | <b>0056</b><br><br>ON - OFF<br>(momentary OFF) |              |                                                                                                    |                                                                                                             |

### Dimensions (mm)

**C0055RB**



**C0056RB**



# 3005 Refrigerator Door Switches *Splashproof*



3005 25W 25T85 5E4 (50,000 Operations) 250Vac  
3006 65W 25T85 5E4 (50,000 Operations) 250Vac

These products require 3mm minimum actuator stroke to ensure switch action and rating above

μ contact gap  
Technical data on pages 4 & 5



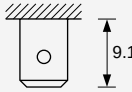
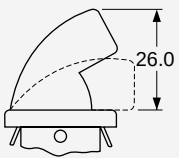
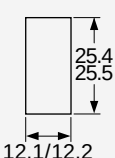
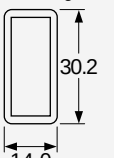
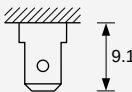
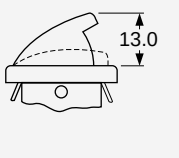
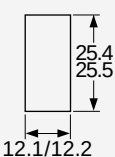
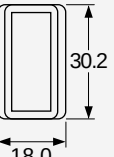
C3005CB ---



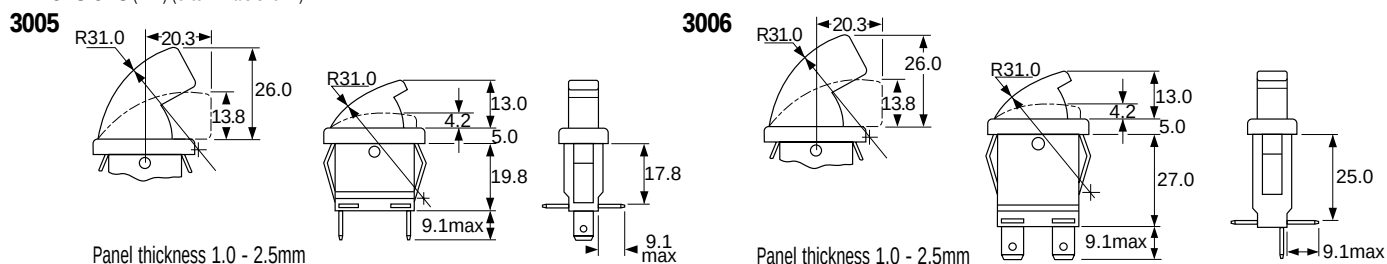
C3005BL ---

**C 3005 C B - - -**

TERMINAL FUNCTION ACTUATOR BODY COLOUR, ETC

| ► TERMINAL                                                                                                   | ► FUNCTION                                                                                                                                                             | ► ACTUATOR                                                                                              | ► BODY                                                                                                                                                                                                                                                                                                                                                                                                       | ► OPTIONS                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8 | <b>3005</b><br><br>ON - OFF<br>(momentary OFF)<br>1mm max travel<br>to OFF position | <b>B</b><br><br>26.0 | <b>3005 or 3006</b><br><br>Terminal direction (viewed from hinge end)<br>Panel cut-out<br><br>12.1/12.2 x 25.4/25.5<br>Flange<br><br>14.0 x 30.2 | <b>Finish</b><br>Gloss finish only<br><b>Colour</b><br>White is standard<br>Call factory for<br>custom colours<br>A full range is available<br>for large orders |
| <b>H</b><br><br>4.8 x 0.8 | <b>3006</b><br><br>ON - OFF<br>(momentary ON)<br>3mm min travel<br>to ON position   | <b>C</b><br><br>13.0 | <b>3005 only</b><br><br>Terminal direction (viewed from hinge end)<br>Panel cut-out<br><br>12.1/12.2 x 25.4/25.5<br>Flange<br><br>18.0 x 30.2    |                                                                                                                                                                 |

**Dimensions** (mm) (C terminals shown)



# 3100 Refrigerator Door Switches *Splashproof*



5A 250Vac 25T85 5E4 (50,000 Operations)



UL CSA 5A 250Vac  
UL 85°C, file E45221, CSA file LR10990



200W 250Vac Lampload (400,000 operations)

μ contact gap

Technical data on pages 4 & 5

Sealed terminals option available. Call factory for details



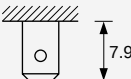
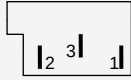
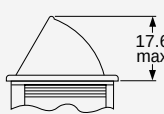
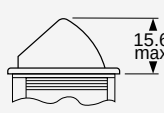
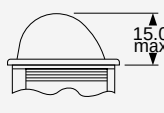
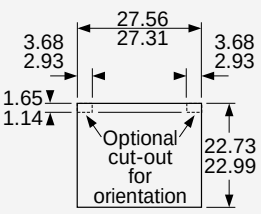
E3102AA - - -



E3111BA - - -

**E 3102 A A - - -**

TERMINAL FUNCTION ACTUATOR BODY COLOUR, ETC

| ▶ TERMINAL                                                                                                                                                       | ▶ FUNCTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ▶ ACTUATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ▶ BODY                                                                                                                                                   | ▶ OPTIONS                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E</b><br><br><br>4.8 x 0.5<br><br>For sealed terminals<br>call the factory | <br><br><b>3101</b><br><br>ON - OFF<br>(momentary ON)<br><br><b>3102</b><br><br>ON - OFF<br>(momentary OFF)<br><br><b>3111</b><br><br>ON - ON<br>(momentary 1 side) | <b>A</b><br><br><b>B</b><br><br><b>C</b><br><br><b>D</b><br><br><b>E</b><br> | <b>A</b><br><br><br><br>Panel cut-out<br>Panel thickness 1.0 - 2.5mm | <b>Finish</b><br>Gloss finish only<br><br><b>Colour</b><br>White is standard<br><br>Call factory for<br>custom colours<br>A full range is available<br>for large orders |

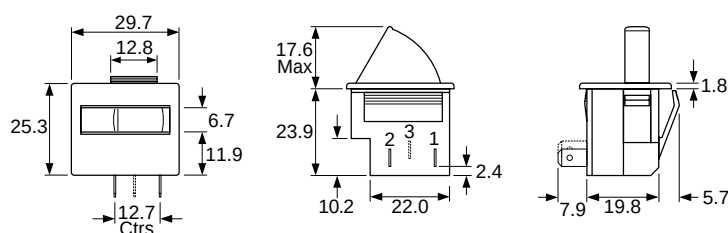
**Dimensions** (mm) ("A" actuator shown)

**3101** uses terminals 1,2

**3102** uses terminals 1,2

**3111** uses terminals 1,2,3

For details of actuator travel  
and switching angles call the factory



# 3140 Refrigerator Door Switches *Splashproof*



5A 250Vac 25T85 5E4 (50,000 Operations)



UL CSA 5A 250Vac  
UL 85°C, file E45221, CSA file LR10990

*In house test*

200W 250Vac Lampload (400,000 operations)

3mm contact gap

Technical data on pages 4 & 5

Sealed terminals option available. Call factory for details



HK3141AA ---



H3145AA ---

**HK 3141 A A - - -**

TERMINALS   FUNCTION   ACTUATOR   BODY   COLOUR, ETC

| ▶ TERMINAL                                                                                                                                                                        | ▶ FUNCTION                                                                                                                                         | ▶ ACTUATOR                                                                      | ▶ BODY                                                               | ▶ OPTIONS                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>H</b></p> <p>4.8 x 0.8</p> <p>Standard format is H terminals in positions 1 &amp; 2 and K terminals in positions 3 &amp; 4</p> <p>For sealed terminals call the factory</p> | <p><b>3141</b></p> <p>ON - ON (momentary)</p> <p><b>3145</b></p> <p>ON - OFF (momentary OFF)</p> <p><b>3146</b></p> <p>ON - OFF (momentary ON)</p> | <p><b>A</b></p> <p><b>B</b></p> <p><b>C</b></p> <p><b>D</b></p> <p><b>E</b></p> | <p><b>A</b></p> <p>Panel cut-out<br/>Panel thickness 1.0 - 2.5mm</p> | <p><b>Finish</b><br/>Gloss finish only</p> <p><b>Colour</b><br/>White is standard</p> <p>Call factory for custom colours<br/>A full range is available for large orders</p> |

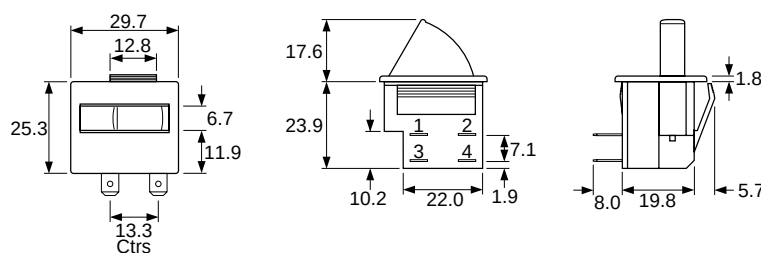
## Dimensions (mm) ("A" actuator shown)

**3141** uses terminals 1,2,3,4

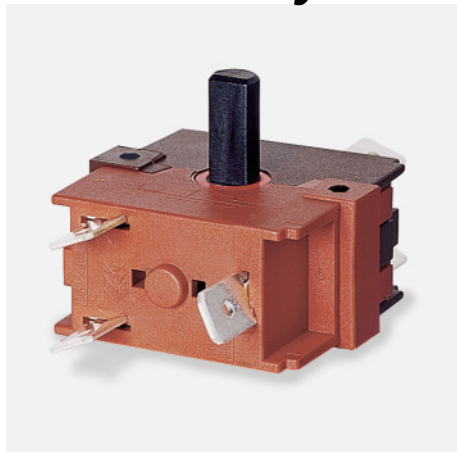
**3145** uses terminals 3,4

**3146** uses terminals 1,2

For details of actuator travel and switching angles call the factory



# 9100 Rotary Switches 16A 250Vac



16(4)A 250Vac T125  
16A 400Vac T125  
8(8)A 250Vac T125 5E4 (50,000 Operations)



UL CSA 20A Non Ind 277Vac, 250Vac 2hp, 125Vac 1hp  
UL85°C, file no. E45221, CSA file no. LR10990



20A 28V dc

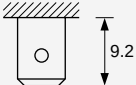
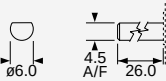
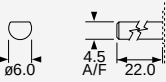
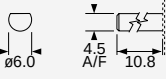
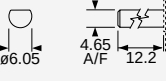
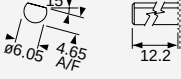
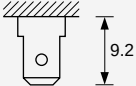
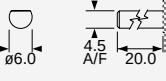
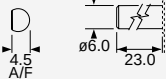
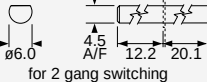
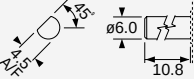
9100 switches are highly versatile with up to 6 positions at 30° intervals and 6 terminals per switch. For more complex switching (7 positions & over), contact the factory  
Two switches may be stacked to give up to 12 terminal switching

Custom spindles of any length, with or without a "D" flat, can be produced from our infinitely variable tooling. The flat can be at any angle

3mm contact gap

Technical data on pages 4 & 5

**C 9 5 01 D A**  
TERMINAL SERIES POSITIONS CIRCUIT SPINDLE BODY

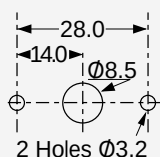
| ▶ TERMINAL                                                                                                                                                                                               | ▶ SERIES                 | ▶ POSITION               | ▶ CIRCUIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ▶ SPINDLE                                                                                                                                     |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------------------------------------------------------------------------------------------------|
| <div>C</div> <div></div> <div>6.3 x 0.8</div>                                                                         | 9                        | 2<br>Switching positions | <div>9100 switches offer almost infinite switching options</div> <div>For this reason it is impractical to show all the options available</div> <div>The table below gives an example of a 5 position switching sequence:<br/>OFF, 1, 1+2, 1+2+3, 1+2+3+4</div> <div><table><tr><th>Off</th><th>Pos 1</th><th>Pos 2</th><th>Pos 3</th><th>Pos 4</th><th>Pos 5</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div> | Off                                                                                                                                           | Pos 1 | Pos 2 | Pos 3 | Pos 4 | Pos 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <div>A</div> <div></div> |
| Off                                                                                                                                                                                                      |                          | Pos 1                    | Pos 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pos 3                                                                                                                                         | Pos 4 | Pos 5 |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          | 3<br>Switching positions |                          | <div>B</div> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          | 4<br>Switching positions |                          | <div>C</div> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          | 5<br>Switching positions |                          | <div>D</div> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          | 6<br>Switching positions |                          | <div>M</div> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
| <div>H</div> <div></div> <div>4.8 x 0.8</div> <div>For approval information on H terminals, contact the factory</div> |                          |                          | <div>The code for your chosen circuit will be allocated by our technicians<br/>Please contact the factory for details</div> <div>Use the blank table to plan your switching up to 6 positions</div> <div><table><tr><th>Pos 1</th><th>Pos 2</th><th>Pos 3</th><th>Pos 4</th><th>Pos 5</th><th>Pos 6</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div>                                                           | Pos 1                                                                                                                                         | Pos 2 | Pos 3 | Pos 4 | Pos 5 | Pos 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <div>N</div> <div></div> |
| Pos 1                                                                                                                                                                                                    | Pos 2                    | Pos 3                    | Pos 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pos 5                                                                                                                                         | Pos 6 |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
| Simple circuits may not use all terminals<br>Unnecessary terminals may be omitted.                                                                                                                       |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>P</div> <div></div>                                 |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>R</div> <div></div> <div>for 2 gang switching</div> |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>S</div> <div></div>                                 |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |
|                                                                                                                                                                                                          |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>L</div> <div>supplied without spindle</div>                                                                                              |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |

|                                           |                                              |                                                       |                                                 |                                                     |                                                   |                                                   |
|-------------------------------------------|----------------------------------------------|-------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| <b>9201</b><br><br><b>OFF, 1</b>          | <b>9202</b><br><br><b>OFF, 1+2</b>           | <b>9203</b><br><br><b>OFF, 3</b>                      | <b>9204</b><br><br><b>OFF, 1+3</b>              | <b>9301</b><br><br><b>OFF, 1, 1+2</b>               | <b>9304</b><br><br><b>1+3, OFF, 2+4</b>           | <b>9305</b><br><br><b>1, OFF, 2</b>               |
| <b>9312</b><br><br><b>OFF, 2+3, 2+3+4</b> | <b>9313</b><br><br><b>OFF, 3, 3+4</b>        | <b>9401</b><br><br><b>OFF, 1, 2+3, 1+3</b>            | <b>9402</b><br><br><b>OFF, 1, 1+2, 1+2+3</b>    | <b>9403</b><br><br><b>OFF, 1, 1+4, 1+2+4</b>        | <b>9404</b><br><br><b>OFF, 1+3, 1+4, 1+3+4</b>    | <b>9405</b><br><br><b>OFF, 1+4, 2+4, 3+4</b>      |
| <b>9407</b><br><br><b>OFF, 1, 2, 3</b>    | <b>9408</b><br><br><b>1, 2, 3, 4</b>         | <b>9409</b><br><br><b>OFF, 3, 4, 3+4</b>              | <b>9411</b><br><br><b>OFF, 4, 1+4, 1+2+4</b>    | <b>9414</b><br><br><b>OFF, 1, 3, 1+3</b>            | <b>9419</b><br><br><b>OFF, 1+2, 1+4, 1+2+3+4</b>  | <b>9421</b><br><br><b>OFF, 1+2, 1+4, 1+2+4</b>    |
| <b>9422</b><br><br><b>OFF, 1, 2, OFF</b>  | <b>9423</b><br><br><b>OFF, 3, 1+3, 1+2+3</b> | <b>9501</b><br><br><b>OFF, 1, 1+2, 1+2+3, 1+2+3+4</b> | <b>9503</b><br><br><b>OFF, 1, 2, 1+3, 1+3+4</b> | <b>9504</b><br><br><b>OFF, 1+4, 1+3, 2+3, 1+2+3</b> | <b>9505</b><br><br><b>OFF, 1, 1+2, 1+3, 1+2+3</b> | <b>9509</b><br><br><b>OFF, 4, 1+4, 3+4, 1+3+4</b> |

## BODY

### A

Standard 2 hole fixing



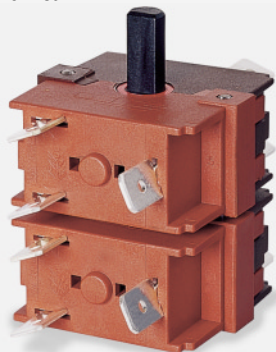
### Recommended fixing

2 off No4 / 3.0mm self tapping screws  
5.0mm min penetration into switch body

Snap together body sections withstand  
>1.0Nm separation force

### Stacked Switches

For more complex switching a  
second switch may be stacked  
on the first



## OPTIONS

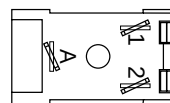
### Anti-rotation stops

May be fitted at any of the index positions  
to limit the maximum angle of rotation

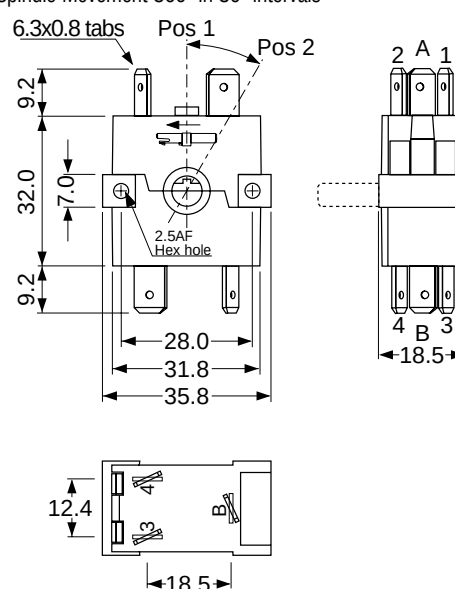
### Panel clearance

A spacer can be fitted to the switch body  
to increase the clearance between the  
mounting panel and switch terminals

## DIMENSIONS (mm)



Spindle Movement 360° in 30° intervals



Note  
In the circuits on this page,  
the symbol ● shows the  
position of the switch cam,  
NOT the position of the  
spindle flat

For all options call the factory

# 9000 Rotary Switches For Foot Spas 2A 250Vac



2A 250Vac T85



UL 2A 250Vac, 65°C, file E45221

μ contact gap

Technical data on pages 4 & 5

A 4-position single pole rotary switch.

All nylon construction, threaded neck and flatted 6.0mm dia. spindle.

Positive detent action, 90° between index positions.

Stops available to restrict rotation.

Various circuits may be obtained by changing the supply and load connections or by omission of one or two terminals.

Line and loads may be connected to any terminals.

Any three of the four contacts are always connected.

Illustrated loads and line are for example only.

Suitable for class II appliances.

Patent app.



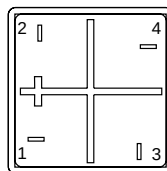
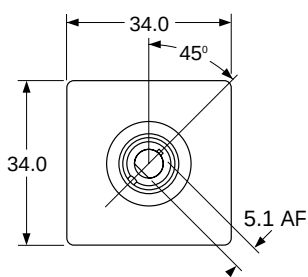
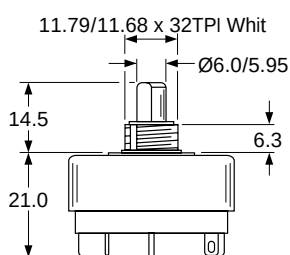
T9000 00 ---

## T 9000

TERMINAL FUNCTION

| TERMINAL                      | FUNCTION                                                                                                                                                    | BODY                                                     | OPTIONS                                                                                      |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <p><b>T</b></p> <p>Solder</p> | <p><b>9000</b></p> <p><b>Position 1</b><br/><i>Viewed from terminal side</i></p> <p><b>Position 2</b></p> <p><b>Position 3</b></p> <p><b>Position 4</b></p> | <p>Panel Cut-out</p> <p>Panel thickness 1.25 - 3.5mm</p> | <p><b>Rotation Stops</b><br/>Can be specified to limit the number of switching positions</p> |

## Dimensions (mm)



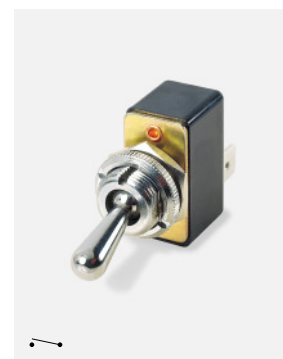
# 0600 Lever Switches 1A 250Vac

**In house test** 1A 250Vac  
10A 6/24Vdc

3mm contact gap  
Technical data on pages 4 & 5



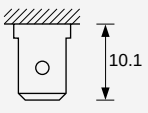
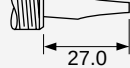
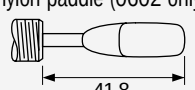
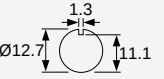
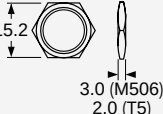
C0600HD ---



C0600CC ---

**C 0600 H D ---**

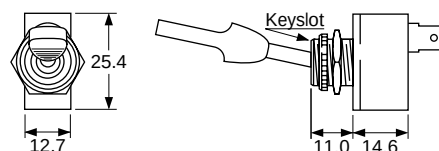
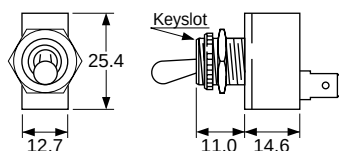
TERMINAL FUNCTION ACTUATOR BODY OPTIONS

| ► TERMINAL                                                                                                               | ► FUNCTION                                                                                                                                                                                                                                                     | ► ACTUATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ► BODY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ► OPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br><br>6.3 x 0.8<br>10.1 | <b>0600</b><br><br><br>ON - OFF<br><br><b>0602</b><br><br><br>ON - OFF<br>(momentary ON) | <b>C</b> Chromed brass (0600)<br><br>15.0<br><b>U</b> Nylon (0600)<br><br>12.1<br><b>G</b> Nylon (0600)<br><br>27.0<br><b>H</b> Nylon (0600)<br><br>17.0<br><b>S</b> Chromed brass stem/<br>nylon paddle (0602 only)<br><br>41.8 | <b>D</b> Nylon neck and top plate<br>(Used with actuator codes U, G and H)<br><br><b>C</b> Metal neck and top plate<br>(Used with actuator codes C and S)<br><br><br>Panel thickness - 3.5mm<br>Back nut must be fitted<br><br><b>Fixing nuts</b> (Standard is M506 & T92)<br><b>T5</b> Hex brass<br><b>M506</b> Hex nylon<br><br>15.2<br>3.0 (M506)<br>2.0 (T5)<br><b>T92</b> Knurled brass<br><br>16.0<br>2.6<br><b>M279</b> Knurled nylon<br><br>16.2<br>4.1 | <b>Cover M331</b> (C Actuator only)<br><br><br><b>Seal M539</b> (C,H & U Actuators)<br>Actuator visible<br><br><br><b>Cover M1080</b> (C Actuator only)<br><br><br>Covers have internal nylon nuts |

## Dimensions (mm)

**0600** (U actuator shown)

**0602**



# 3900 Splashproof Metal Lever Switches 16A 250Vac

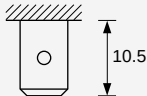
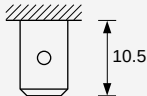
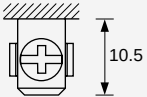
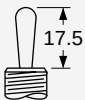
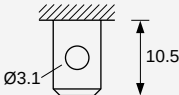


16(4)A 250Vac T85 (3900 & 3950)  
 10(4)A 250Vac T85 (All other circuits)  
 UL CSA 20A 125/277Vac (ON-OFF Circuits)  
 UL CSA 16A 125/277Vac (Other Circuits)  
 UL CSA 7A 72Vdc, 14A 36Vdc  
 UL 250Vac 1hp, 125Vac 1/2hp  
 UL 85°C, file E45221, CSA file LR10990

Inrush rating - Contact factory for details

Approvals and ratings vary with function  
 3mm contact gap except where marked  $\mu$   
 Integral O-ring neck seal  
 Technical data on pages 4 & 5

**C 3900 B A - - -**  
 \_\_\_\_\_  
 TERMINAL FUNCTION ACTUATOR BODY OPTIONS

| TERMINAL                                                                            |                                                                                                                                                 | FUNCTION                                                                              |                                                                                       | ACTUATOR                                                                              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| C                                                                                   |                                                              | Single pole                                                                           | Double pole                                                                           | B                                                                                     |
|                                                                                     |                                                              |    |  |                                                                                       |
|                                                                                     | 3900                                                                                                                                            | ON - OFF                                                                              | 3950                                                                                  |                                                                                       |
|                                                                                     |                                                              |                                                                                       |  |                                                                                       |
|                                                                                     | 3901                                                                                                                                            | ON - OFF<br>(momentary ON)                                                            | 3951                                                                                  |                                                                                       |
|                                                                                     |                                                              |                                                                                       |  |                                                                                       |
|                                                                                     | 3902                                                                                                                                            | ON - OFF<br>(momentary OFF)                                                           | 3952                                                                                  |                                                                                       |
|                                                                                     |                                                              |                                                                                       |  |                                                                                       |
|                                                                                     | 3910                                                                                                                                            | ON - ON                                                                               | 3960                                                                                  |                                                                                       |
|                                                                                     |                                                              |                                                                                       |  |                                                                                       |
| 3911                                                                                | ON - ON<br>(momentary 1 side)                                                                                                                   | 3961                                                                                  |                                                                                       |                                                                                       |
|  |                                                                                                                                                 |  |                                                                                       |                                                                                       |
| 3920                                                                                | ON - OFF - ON $\mu$                                                                                                                             | 3970                                                                                  |                                                                                       |                                                                                       |
|  |                                                                                                                                                 |  |                                                                                       |                                                                                       |
| 3921                                                                                | ON - OFF - ON $\mu$<br>(momentary 1 side)                                                                                                       | 3971                                                                                  |                                                                                       |                                                                                       |
|  |                                                                                                                                                 |  |                                                                                       |                                                                                       |
| 3922                                                                                | ON - OFF - ON $\mu$<br>(momentary 2 sides)                                                                                                      | 3972                                                                                  |                                                                                       |                                                                                       |
|  |                                                                                                                                                 |  |                                                                                       |                                                                                       |
| S                                                                                   | <br>Screw & clamp<br>available for<br>On - Off switches only |                                                                                       |                                                                                       |  |
| T                                                                                   | <br>Solder                                                   |                                                                                       |                                                                                       | Finish is nickel plate                                                                |



C3900BA ---



C3920BA ---



**Guard R17-10**  
Anti-rotation tab can be specified  
for guard fitted in On or Off position



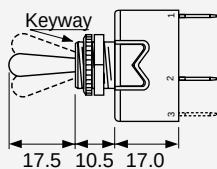
C3950BB ---



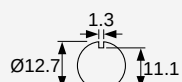
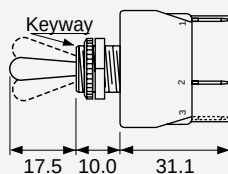
C3972BB ---

## BODY

### A Without terminal barrier Single pole



### B With terminal barrier Double pole only



Panel hole (all types)

## OPTIONS

### Neck Seal M539

Actuator is visible



### Cover M1080



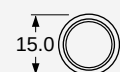
Covers have internal nylon nuts

### Fixing nuts

Nickel plated brass are supplied



Hex Back nut



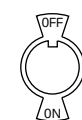
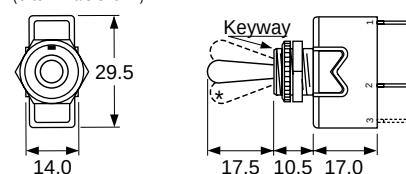
Knurled Front nut

Panel thickness 4.0 with backnut

## DIMENSIONS (mm) \* Indicates ON position (for On - Off switches)

### Single Pole

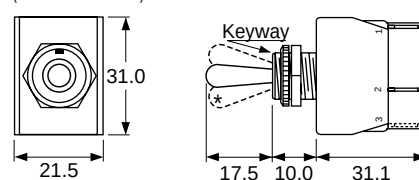
(C terminals shown)



Optional  
P232 plate  
SP or DP

### Double Pole

(C terminals shown)



# 1700 & 1750 Lever Switches 16A 250Vac Single and Double Pole



16(4)A 250Vac T85



UL 20A 250Vac Non Ind (Single pole)  
 UL 16A 250Vac Non Ind (Double pole)  
 UL CSA (2 pos types) 250Vac 1hp, 125Vac 1/2hp  
 UL CSA (3 pos types) 250Vac 1/2hp, 125Vac 1/4hp  
 CSA 16A 250Vac Non Ind  
 UL 85°C, file E45221, CSA file LR10990  
 UL and CSA N/A on momentary types



Inrush 36A to EN61058-1 & 20A 28Vdc

Selective "A, B, C" and "Off, A, A+B" circuits at 5 amp also available  
 3mm contact gap except where marked  $\mu$   
 Technical data on pages 4 & 5

**C 1750 H O - - -**

TERMINAL FUNCTION ACTUATOR BODY OPTIONS

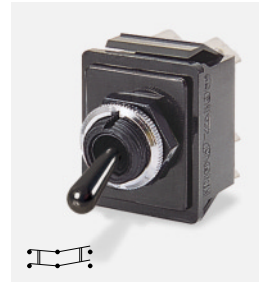
| ▶ TERMINAL                                  | ▶ FUNCTION                                                                                                                                                                                            | ▶ ACTUATOR                                                                                             |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                   | <div> <b>Single pole</b><br/> <br/> <b>1700</b> <math>\blacklozenge</math><br/> <br/>                     ON - OFF                 </div> <div> <b>Double pole</b><br/> <br/> <b>1750</b><br/> </div> | <b>H</b><br><br>16.4                                                                                   |
| <b>H</b><br><br>4.8 x 0.8                   | <div> <b>1710</b> <math>\mu \blacklozenge</math><br/> <br/>                     ON - ON                 </div> <div> <b>1760</b> <math>\mu</math><br/> </div>                                         |                                                                                                        |
| <b>K</b><br><br>2.8 x 0.8                   | <div> <b>1720</b> <math>\mu \blacklozenge</math><br/> <br/>                     ON - OFF - ON                 </div> <div> <b>1770</b> <math>\mu</math><br/> </div>                                   | <b>R</b><br><br>13.8                                                                                   |
| <b>T</b><br><br>$\varnothing 2.1$<br>Solder | <b>1721</b> $\mu$<br><br>ON - OFF - ON<br>(momentary 1 side)                                                                                                                                          |                                                                                                        |
| <b>X</b><br><br>PCB 0.8 Sq                  | <b>1722</b> $\mu$<br><br>ON - OFF - ON<br>(momentary 2 sides)                                                                                                                                         | The switch is on between centre terminals (2 & 5) and the terminals over which the lever is positioned |



C1700RO ---



C1700HO ---



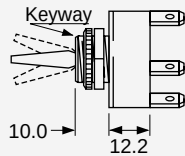
C1760RO ---



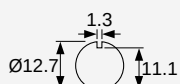
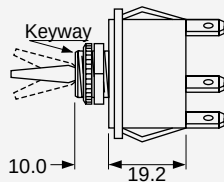
C1750HO ---

## BODY

### 0 Single pole



### 0 Double pole



Panel hole (all types)

Panel thickness (Max)  
Both nuts - 3.5mm  
Less backnut - 6.5mm

## OPTIONS

### Neck Seal M539 Rubber -57T145 (H & R Actuators) Actuator visible



### Cover M1080 Rubber -57T145 (R Actuator only)



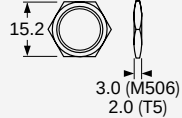
### Cover M331 PVC -5T85 (R Actuator only)



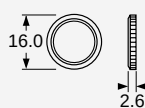
Covers have internal nylon nuts

### Fixing nuts (Standard is M506 & T92)

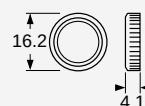
T5 Hex brass  
M506 Hex nylon



T92 Knurled brass



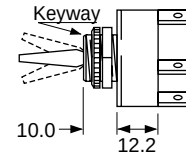
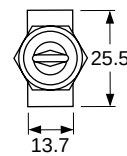
M279 Knurled nylon



## DIMENSIONS (mm)

### Single Pole

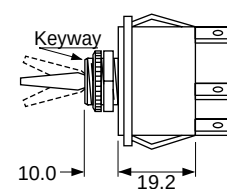
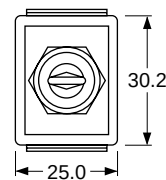
(C terminals shown)



Optional  
P232 plate  
SP or DP

### Double Pole

(C terminals shown)



Optional terminal barrier M441 is available

# Technical Information - Indicators

The majority of Arcoelectric indicator lights can be supplied with alternative light sources:

**Neon, Fluorescent, Filament lamp or LED.**

## NEON and FLUORESCENT LAMPS

### Colours

Red, Amber and Clear neon, Green fluorescent.

### Maximum striking voltages

Standard brightness types 65Vac 90Vdc,

High brightness types 85Vac 135Vdc.

High brightness types are usually fitted.

### Life

Typically 25,000 hours (Green fluorescent lamps 20,000 hours).

(Measured to a point when the light output of the lamp is half its original level.)

The end of life for a neon lamp is not usually a sudden failure.

### False signals due to long wiring

It is possible for neon or fluorescent tubes to glow when they should be off. The false signal is caused by the capacitance effect of fairly long wiring to the indicator being adjacent to other live cables.

This effect can be prevented in most cases by fitting a 100K resistor across the supply wires close to the indicator assembly.

## MATERIALS

|                          |                                          |
|--------------------------|------------------------------------------|
| Moulded bodies and bases | Nylon 6.6                                |
| Metal bodies and bezels  | Chrome plated brass (except #)           |
| Lenses                   | Polycarbonate                            |
| Terminals (most types)   | Brass (electro-tin plated)               |
| Terminals (exceptions)   | Brass (flash silver* or nickel** plated) |
| Threaded metal nuts      | Brass (nickel plated on 0275/7)          |
| Other fixings            | Call factory for details                 |

\* R9, 0061, 0062, 0430, 0480, 1090, 1091, 6030, 7030, 8630, 8580

\*\* # 3130, 3160, 3161, 3221 have nickel plated terminals with steel screws and plated polyamide bezel trims

## TEMPERATURE RATING

| Authority | with Terminals | with Wire leads |          |
|-----------|----------------|-----------------|----------|
|           |                | PVC             | SILICONE |
| European  | T125°C         | T105°C          | T125°C   |
| UL        | T65/75°C       | T65/75°C        |          |

## FILAMENT LAMPS

### Colours

Red, Amber, Green, (Clear and Blue - check availability)

## LEDS

### Colours

Red, Yellow and Green.

### Voltage

Basic voltage 2.0/2.2V. Some items are available with integral resistors for 12V use. For details of resistors required for higher voltages, please call the factory.

### Current

Maximum continuous forward current 35mA.

### Life

>100,000hrs

### Polarity

LED flat side is - negative, round side + positive.

## SYMBOLS



Terminals  
C 6.3, H 4.8, K 2.8



Wire leads  
200mm long Standard



Solid wires  
LED only



Panel hole size



Panel thickness



Temperature rating

# Indicator Lights (Neon, LED and Filament Lamp)



UL file E63363

CSA file LR29381

## Colours and voltages:

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| <b>Neon</b>          | Red, Amber, Green, Clear<br>100/130V (marked 110V), 200/250V (marked 230V) |
| <b>LED</b>           | Red, Yellow, Green<br>2.0/2.2V Resistors for other voltages available      |
| <b>Filament lamp</b> | Red, Amber, Green, (Clear & Blue check availability)<br>6V, 12/14V, 24/28V |

## To create a catalogue number:

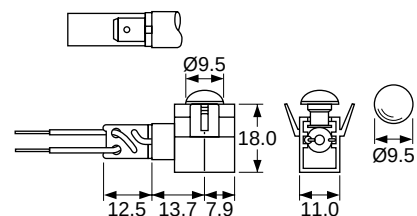
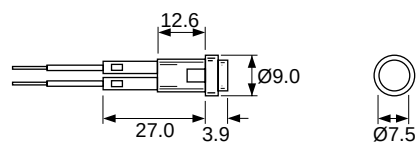
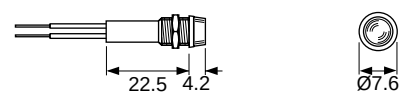
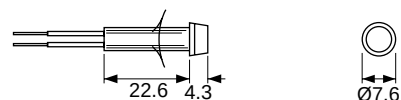
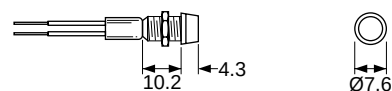
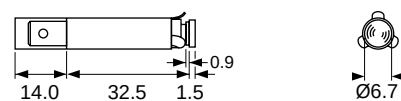
Refer to the 2 columns below (terminal and type)

Then state:

Lens colour, voltage and whether neon, LED or filament lamp

| TERM       | TYPE                                                | PANEL & °C                |
|------------|-----------------------------------------------------|---------------------------|
| C 6.3      | (C) 0145 AA<br><br>S D N F S                        | 5.8<br>3.0max<br>page 66  |
| L<br>W     | (L) 1041 00 Chrome bezel<br><br>                    | 6.3<br>6.3max<br>page 66  |
| L<br>W     | (L) 1045 00 Chrome bezel available<br><br>S D N F S | 6.3<br>10.0max<br>page 66 |
| L<br>W     | (L) 0245 00 Chrome bezel available<br><br>S D N F S | 7.1<br>6.3max<br>page 66  |
| L          | L 2950 00 Chrome bezel available<br><br>S D N F S   | 8.0<br>0.8-1.6<br>page 66 |
| L<br>C 6.3 | (L) 0195 BB<br><br>S D N F KEMA EUR S               | 8.0<br>0.8-3.0<br>page 66 |

## DIMENSIONS (mm)



# Indicator Lights (Neon, LED and Filament Lamp)



UL file E63363

CSA file LR29381

## Colours and voltages:

### Neon

Red, Amber, Green, Clear  
100/130V (marked 110V), 200/250V (marked 230V)

### LED

Red, Yellow, Green  
2.0/2.2V Resistors for other voltages available

### Filament lamp

Red, Amber, Green, (Clear & Blue check availability)  
6V, 12/14V, 24/28V

## To create a catalogue number:

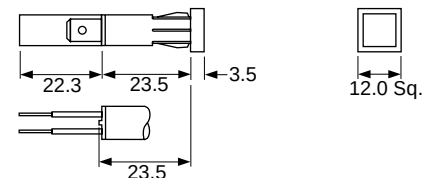
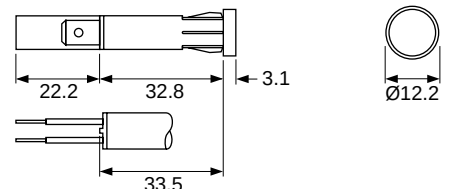
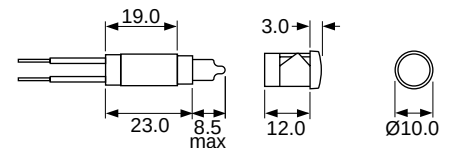
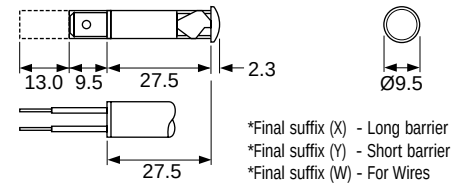
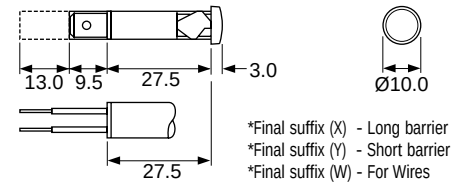
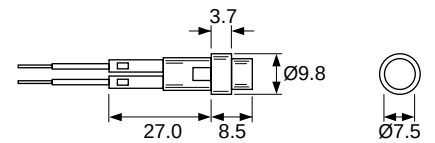
Refer to the 2 columns below (terminal and type)

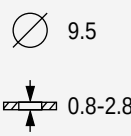
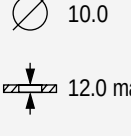
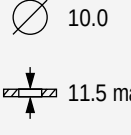
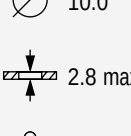
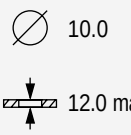
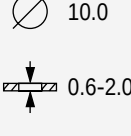
Then state:

Lens colour, voltage and whether neon, LED or filament lamp

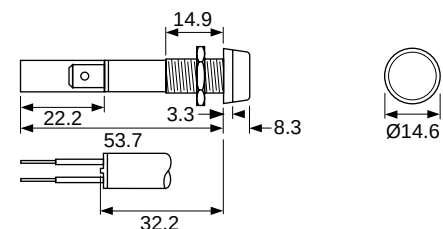
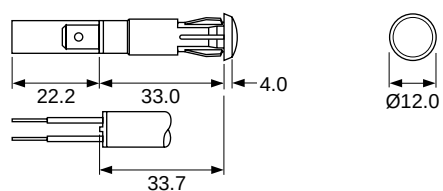
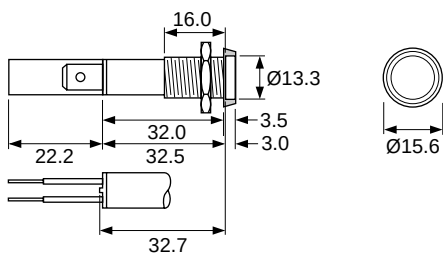
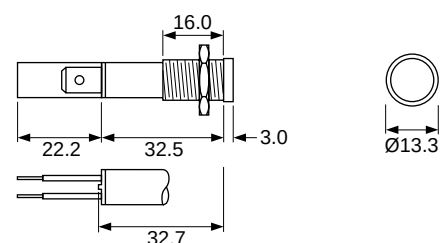
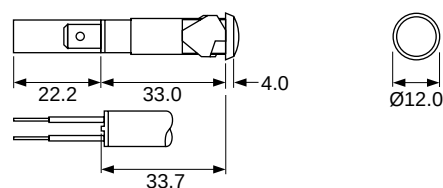
| TERM  | TYPE                                                                                                                                                               | PANEL & °C                                                                                                                                                                                                                                                                                 |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L     | <b>L 2951 00</b><br>Chrome bezel available<br><br>S D N H KEMA S UL               |  8.0<br> 0.8-1.6<br> page 66            |
| L     | <b>(H) 0568 A(*)</b><br>Deep lens profile<br><br>UL (VDE at T100) <b>NEW</b>     |  8.0<br> 0.8-3.5<br> page 66         |
| K 2.8 |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| H 4.8 |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| L     | <b>(H) 0568 B(*)</b><br>Shallow lens profile<br><br>UL (VDE at T100) <b>NEW</b> |  8.0<br> 0.8-3.5<br> page 66      |
| K 2.8 |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| H 4.8 |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| L     | <b>(L) 0569 AW</b><br><br>UL <b>NEW</b>                                         |  9.0<br> 0.8-2.5<br> Call factory |
| K 2.8 |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| H 4.8 |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| C 6.3 | <b>(C) 0273 00</b><br><br>S D N H KEMA S UL                                     |  9.0<br> 2.0 max<br> page 66      |
| L     | <b>(C) 0278 00</b><br><br>S D N H KEMA S UL                                     |  9.0<br> 2.0 max<br> page 66      |
| K 2.8 |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| H 4.8 |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| C 6.3 |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |

## DIMENSIONS (mm)

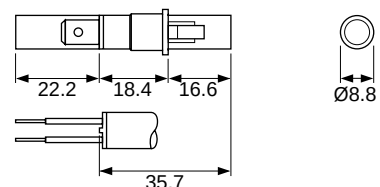


| TERM                                                     | TYPE                                                                                                                                                                                                          | PANEL & °C                                                                                                                                                                         |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L</b><br><b>K 2.8</b><br><b>H 4.8</b><br><b>C 6.3</b> | <b>(C) 0276 AA</b><br><br>                  | <br> page 66     |
| <b>L</b><br><b>K 2.8</b><br><b>H 4.8</b><br><b>C 6.3</b> | <b>(C) 0275 00</b><br><br>               | <br> page 66  |
| <b>L</b><br><b>K 2.8</b><br><b>H 4.8</b><br><b>C 6.3</b> | <b>(C) 0275 00</b> Chrome bezel<br><br> | <br> page 66 |
| <b>L</b><br><b>K 2.8</b><br><b>H 4.8</b><br><b>C 6.3</b> | <b>(C) 0276 00</b><br><br>              | <br> page 66 |
| <b>L</b><br><b>K 2.8</b><br><b>H 4.8</b><br><b>C 6.3</b> | <b>(C) 0277 00</b> Chrome bezel<br><br> | <br> page 66 |
| <b>L</b><br><b>K 2.8</b><br><b>H 4.8</b><br><b>C 6.3</b> | <b>(C) 0273 LL</b> <b>NEW</b><br><br>   | <br> page 66 |

## DIMENSIONS (mm)



For sub-panel mounting, behind a facia



# Indicator Lights (Neon, LED and Filament Lamp)



UL file E63363

CSA file LR29381

## Colours and voltages:

### Neon

Red, Amber, Green, Clear  
100/130V (marked 110V), 200/250V (marked 230V)

### LED

Red, Yellow, Green  
2.0/2.2V Resistors for other voltages available

### Filament lamp

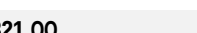
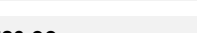
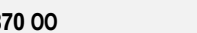
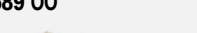
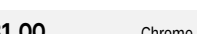
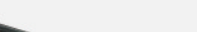
Red, Amber, Green, (Clear & Blue check availability)  
6V, 12/14V, 24/28V

## To create a catalogue number:

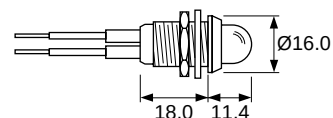
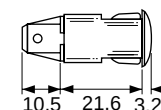
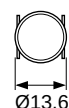
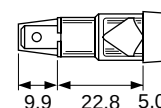
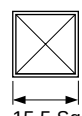
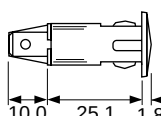
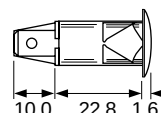
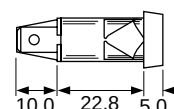
Refer to the 2 columns below (terminal and type)

Then state:

Lens colour, voltage and whether neon, LED or filament lamp

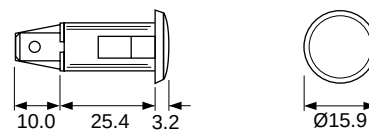
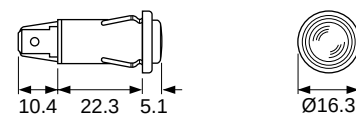
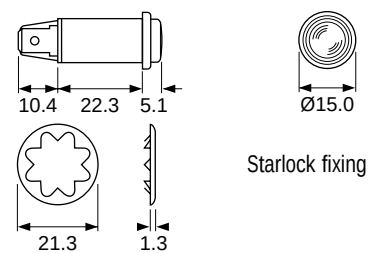
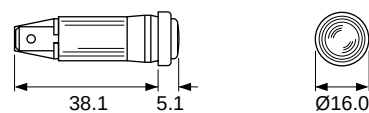
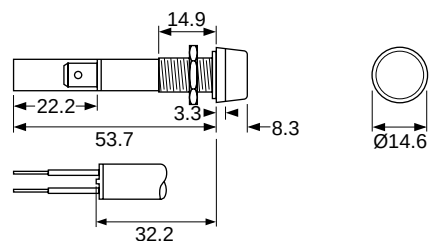
| TERM  | TYPE                                                                                | PANEL & °C      |
|-------|-------------------------------------------------------------------------------------|-----------------|
| L     | (C) 2820 00                                                                         | 12.0            |
| K 2.8 |    | 0.75-2.0        |
| H 4.8 |    | page 66         |
| C 6.3 |    |                 |
| L     | (C) 2821 00                                                                         | 12.0 or 12.7    |
| K 2.8 |   | Ø12.0 = 0.8-2.5 |
| H 4.8 |  | Ø12.7 = 1.1-2.5 |
| C 6.3 |  | page 66         |
| L     | (C) 0586 00                                                                         | 12.5            |
| K 2.8 |  | 0.8-1.5         |
| H 4.8 |  | page 66         |
| C 6.3 |  |                 |
| L     | (C) 2870 00                                                                         | 12.7            |
| K 2.8 |  | 0.75-2.0        |
| H 4.8 |  | page 66         |
| C 6.3 |  |                 |
| L     | (C) 0589 00                                                                         | 12.7            |
| K 2.8 |  | 0.8-1.5         |
| H 4.8 |  | page 66         |
| C 6.3 |  |                 |
| L     | L 0081 00 Chrome bezel                                                              | 12.7            |
|       |  | 9.5             |
|       |  | page 66         |

## DIMENSIONS (mm)



| TERM                                                                                                                                                                                                                                                                                                                                                                                                     | TYPE                                                                                                                                                                                                         | PANEL & °C                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L</b> <br><b>K 2.8</b> <br><b>H 4.8</b> <br><b>C 6.3</b>          | <b>(C) 0177 00</b> Chrome bezel<br><br>    |  12.7<br> 12.0max<br> page 66        |
| <b>L</b> <br><b>K 2.8</b> <br><b>H 4.8</b> <br><b>C 6.3</b>       | <b>(C) 0067 00</b> Chrome bezel<br><br> |  12.7<br> 1.14max<br> page 66      |
| <b>L</b> <br><b>K 2.8</b> <br><b>H 4.8</b> <br><b>C 6.3</b>  | <b>(C) 0180AA</b><br><br>              |  12.7<br> 19.0max<br> page 66  |
| <b>L</b> <br><b>K 2.8</b> <br><b>H 4.8</b> <br><b>C 6.3</b>  | <b>(C) 0180BB</b> Chrome bezel<br><br> |  13.5<br> 0.9-1.14<br> page 66 |
| <b>L</b> <br><b>K 2.8</b> <br><b>H 4.8</b> <br><b>C 6.3</b>  | <b>(C) 0579 00</b><br><br>             |  14.0<br> 2.5max<br> page 66   |

## DIMENSIONS (mm)



# Indicator Lights (Neon, LED and Filament Lamp)



UL file E63363

CSA file LR29381

## Colours and voltages:

### Neon

Red, Amber, Green, Clear  
100/130V (marked 110V), 200/250V (marked 230V)

### LED

Red, Yellow, Green  
2.0/2.2V Resistors for other voltages available

### Filament lamp

Red, Amber, Green, (Clear & Blue check availability)  
6V, 12/14V, 24/28V

## To create a catalogue number:

Refer to the 2 columns below (terminal and type)

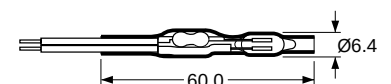
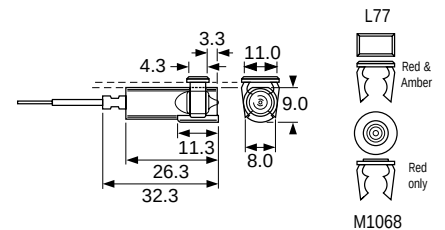
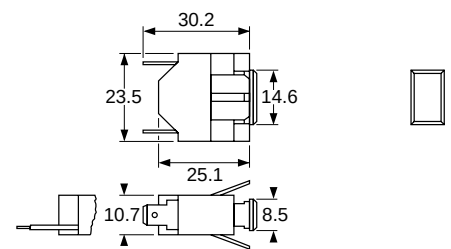
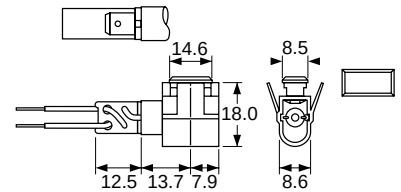
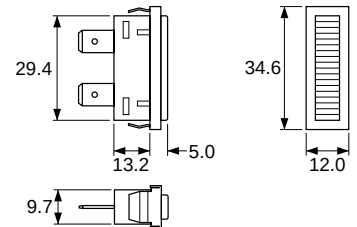
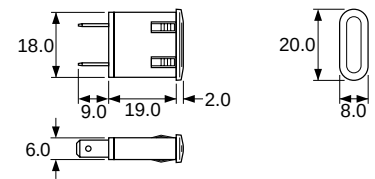
Then state:

Lens colour, voltage and whether neon, LED or filament lamp

\* Call factory for details

| TERM  | TYPE                                                                                            | PANEL & °C                                            |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| H 4.8 | H 0581 AY      | <br>18.2/18.3<br>6.2/6.3*<br>2.0-3.5<br><br>page 66   |
| C 6.3 | C 0582 AY     | <br>32.5/32.6<br>10.0/10.1*<br>0.8-2.3<br><br>page 66 |
| L     | L 0195 00    | <br>13.0x6.5<br>0.8-3.0<br><br>page 66                |
| L     | (C) 0196 AA  | <br>13.0x6.5<br>0.8-3.0<br><br>page 66                |
| L     | L 0234 00    | <br>9.27/9.50<br>4.75*<br>0.71-1.62<br><br>page 66    |
| L     | L 0233 00    | <br><br>page 66                                       |

## DIMENSIONS (mm)



Neon tube, resistor and flexible lead assembly, protected by "shrunk on" transparent sleeving

# Indicator Lights (To match 8500, 8600, R13, 1500, 1550, 5500, 6000, 8300 and 7000 switches)



UL file E63363

CSA file LR29381

## Colours and voltages:

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| <b>Neon</b>          | Red, Amber Green, Clear<br>100/130V (marked 110V), 200/250V (marked 230V) |
| <b>LED</b>           | Red, Yellow, Green<br>2.0/2.2V Resistors for other voltages available     |
| <b>Filament lamp</b> | Red, Amber, Green, Clear and Blue<br>6V, 12/14V, 24/28V                   |

## For full product details, to create a catalogue number or to order:

Refer to the catalogue page shown against each item

| TERM | TYPE |
|------|------|
|------|------|

**H 4.8**

**H8580 AB**

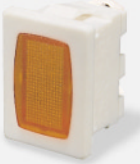


**H 4.8**

**T**

**X**

**H8630 FB**



**H 4.8**

**R9 92B**



Approvals details - contact the factory

**C 6.3**

**H 4.8**

**K 2.8**

**T**

**U**

**C0430 A(\*)**

**NEW**

**C6030 AL**

6030 - L body & C terminals only

**C 6.3**

**H 4.8**

**K 2.8**

**T**

**U**

**C0480 A(\*)**



**C 6.3**

**H 4.8**

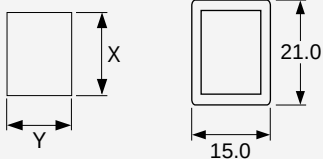
**C7030 AH**



## DIMENSIONS (mm)

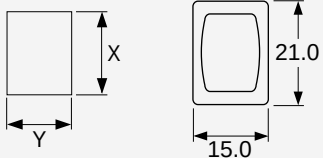
Full product details on pages 10-11

| Body     | Panel     | Cut-out   |           |
|----------|-----------|-----------|-----------|
| Code     | thickness | X         | Y         |
| <b>B</b> | 0.75-1.25 | 19.1/19.2 | 12.9/13.0 |
|          | 1.25-2.0  | 19.3/19.4 | 12.9/13.0 |
|          | 2.0-3.0   | 19.7/19.8 | 12.9/13.0 |



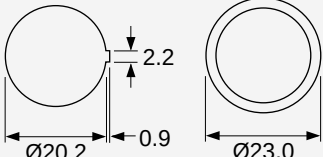
Full product details on pages 12-13

| Body     | Panel     | Cut-out   |           |
|----------|-----------|-----------|-----------|
| Code     | thickness | X         | Y         |
| <b>B</b> | 0.75-1.25 | 19.1/19.2 | 12.9/13.0 |
|          | 1.25-2.0  | 19.3/19.4 | 12.9/13.0 |
|          | 2.0-3.0   | 19.7/19.8 | 12.9/13.0 |



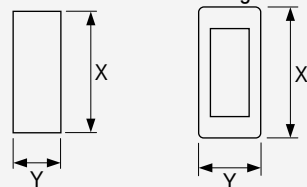
Full product details on pages 16-17

Snap fixing in panels thickness up to 3.0



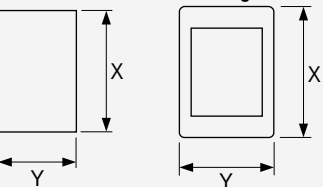
Full product details on pages 18-19 & 20-21

| Body     | Cut-out   |           | Flange |      |
|----------|-----------|-----------|--------|------|
| *Code    | Y         | X         | Y      | X    |
| <b>A</b> | 12.2/12.3 | 27.2/27.3 | 14.0   | 30.2 |
| <b>B</b> | 11.0/11.1 | 30.0/30.1 | 14.0   | 33.4 |
| <b>L</b> | 11.0/11.1 | 30.0/30.1 | 14.0   | 31.9 |
| <b>R</b> | 14.0/14.1 | 28.5/28.6 | 17.0   | 31.5 |



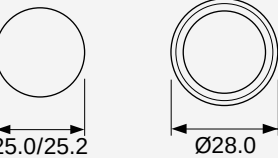
Full product details on pages 26-27

| Body     | Cut-out   |           | Flange |      |
|----------|-----------|-----------|--------|------|
| *Code    | Y         | X         | Y      | X    |
| <b>A</b> | 22.3/22.4 | 27.2/27.3 | 25.0   | 30.2 |
| <b>B</b> | 22.1/22.2 | 30.0/30.1 | 25.0   | 33.4 |
| <b>L</b> | 22.1/22.2 | 30.0/30.1 | 25.0   | 32.0 |
| <b>R</b> | 23.0/25.4 | 28.4/28.5 | 28.9   | 33.2 |



Full product details on pages 38-39

| Body     | Cut-out    | Flange |
|----------|------------|--------|
| Code     |            |        |
| <b>H</b> | Ø25.0/25.2 | Ø28.0  |



# Neon & LED Indicator Lights Sealed to IP52 and IP54



## Colours and voltages:

**Neon** Red, Amber, Green  
120/230Vac 0.5W (Red base)

**LED** Red, Amber, Green  
28Vac/dc 1W (Green base)

Neon versions feature integral current limiting & ghost lighting resistors

LED versions have rectifier diodes & resistors for direct connection to 28Vac/dc

## To order

Select a number from the "type" column

Then state:

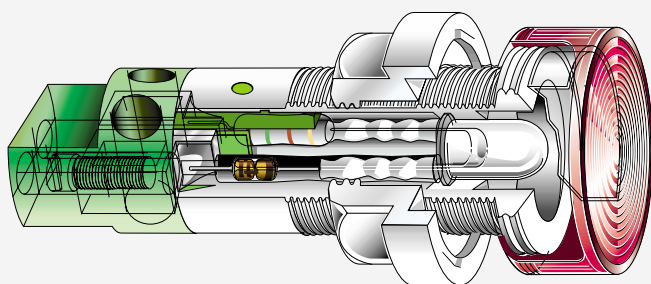
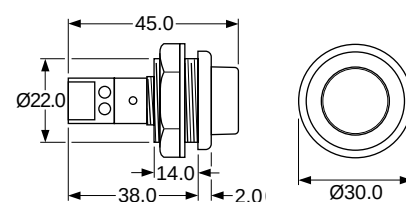
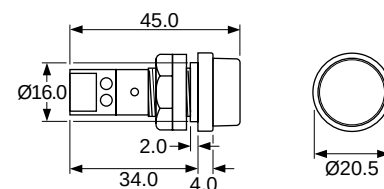
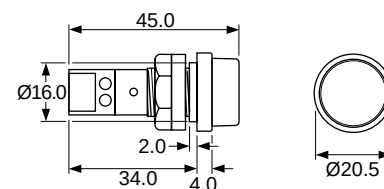
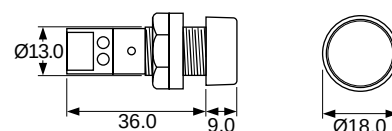
Lens colour, voltage and whether neon or LED

All versions have recessed screw terminals

IP52 is standard. A panel sealing washer is available for IP54

| TERM                                                                                                         | TYPE                                                                                                                                                                                                                                                                                                   | PANEL & °C                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recessed Screw</b><br>   | <b>3130</b> No bezel<br><br>                        |  13.2<br> 8.0max<br> T120 neon<br>T50 LED       |
| <b>Recessed Screw</b><br>  | <b>3160</b> Black bezel<br><br>                |  16.2<br> 5.0max<br> T120 neon<br>T50 LED     |
| <b>Recessed Screw</b><br> | <b>3161</b> Satin chrome style bezel<br><br>  |  16.2<br> 5.0max<br> T55 neon<br>T50 LED  |
| <b>Recessed Screw</b><br> | <b>3221</b> Large black bezel<br><br>         |  22.3<br> 4.5max<br> T120 neon<br>T50 LED |

## DIMENSIONS (mm)



Select the version most suitable for your application from the 4 types shown

Or call the factory for availability to your special requirements

# Low Voltage Lampholders

## Colour and voltage:

These lampholders are suitable for up to 50V max.  
Bulbs will be supplied (dependent on order quantity)  
if a voltage is specified

Colours - Red, Amber, Green, (Clear & Blue, check availability)

## To create a catalogue number:

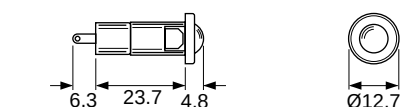
Refer to the 2 columns below (terminal and type)

Then state:

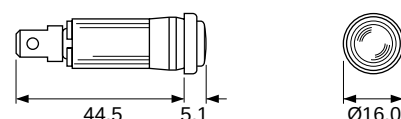
Lens colour and voltage

| TERM                                                                                    | TYPE                                                                                                                                                                      | PANEL & °C                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| T      | <b>T0061 AO</b> (LES)<br>                                                                |  9.5<br> 0.9-1.14<br> T85      |
| C 6.3  | <b>C0067 OO</b> (BA7s) Chrome bezel<br>                                                 |  12.7<br> 1.14max<br> T85   |
| T    | <b>T0062 AO</b> (Midget flange) Chrome bezel<br><br><b>T0063 AO</b> (LES) Chrome bezel |  12.7<br> 9.6max<br> T85 |
| T    | <b>T0062 MO</b> (Midget flange)<br><br><b>T0063 MO</b> (LES)                           |  12.7<br> 9.6max<br> T85 |
| S    | <b>S0095 OO</b><br>                                                                    |  T85                                                                                                                                                                                           |

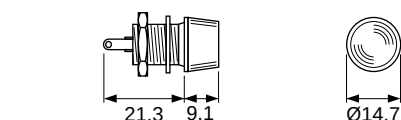
## DIMENSIONS (mm)



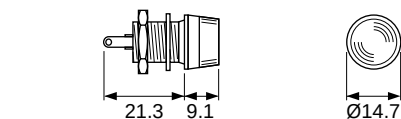
Rear of panel bulb replacement



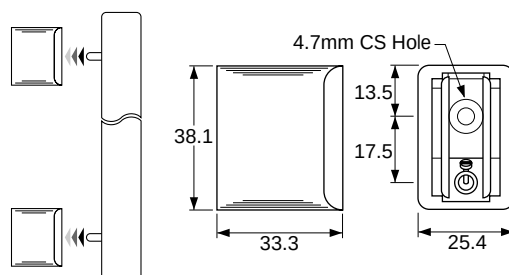
Rear of panel bulb replacement



Front of panel bulb replacement



Front of panel bulb replacement



Paired Architectural lampholders with philinea lamp

# LED Lamps and LED Lampholders

LED Lampholders can be supplied with or without lamps

## Colours:

Red, Yellow and Green LEDs  
(High Intensity is standard. Option of extra super bright)

## Voltages:

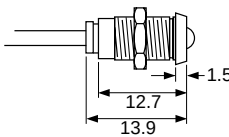
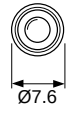
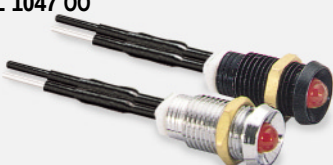
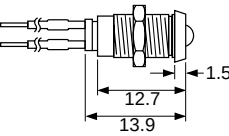
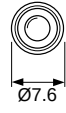
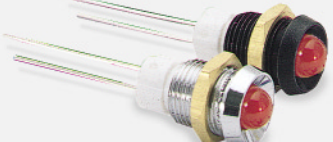
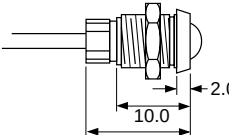
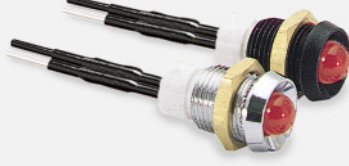
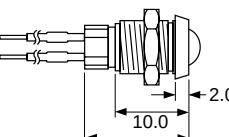
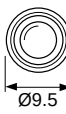
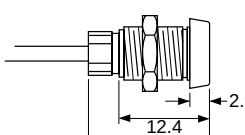
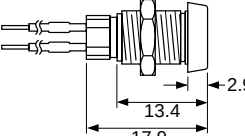
LEDs are available for direct connection to 2.0/2.2V. or 12Vdc  
For other voltages contact the factory

## To create a catalogue number:

Refer to the 2 columns below (terminal and type)

Then state:

LED colour and voltage and body finish (Black or Chrome)

| TERM                                                                                                                  | TYPE                                                                                                                                         | PANEL & °C                                                                                                                                                                                                                                                                       | DIMENSIONS (mm)                                                                                              |                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>W</b><br><br>LED fitted           | <b>(W) 1047 00</b><br><br>3mm LED                           |  6.3<br> 6.3max<br> T85       | <br>1.5<br>12.7<br>13.9   | <br>Ø7.6    |
| <b>A</b><br>LED not fitted                                                                                            |                                                                                                                                              |                                                                                                                                                                                                                                                                                  |                                                                                                              |                                                                                                |
| <b>L</b><br><br>LED & Wires fitted   | <b>L 1047 00</b><br><br>3mm LED                            |  6.3<br> 6.3max<br> T85     | <br>1.5<br>12.7<br>13.9  | <br>Ø7.6   |
|                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                                                                                                  |                                                                                                              |                                                                                                |
| <b>W</b><br><br>LED fitted         | <b>(W) 1048 00</b><br><br>5mm LED                         |  8.0<br> 5.5max<br> T85 | <br>2.0<br>10.0<br>14.5 | <br>Ø9.5  |
| <b>A</b><br>LED not fitted                                                                                            |                                                                                                                                              |                                                                                                                                                                                                                                                                                  |                                                                                                              |                                                                                                |
| <b>L</b><br><br>LED & Wires fitted | <b>L 1048 00</b><br><br>5mm LED                           |  8.0<br> 5.5max<br> T85 | <br>2.0<br>10.0<br>14.5 | <br>Ø9.5  |
|                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                                                                                                  |                                                                                                              |                                                                                                |
| <b>W</b><br><br>LED fitted         | <b>(W) 1050 00</b><br><br>5mm LED with focusing reflector |  8.0<br> 7.0max<br> T85 | <br>2.9<br>12.4<br>16.9 | <br>Ø10.0 |
| <b>A</b><br>LED not fitted                                                                                            |                                                                                                                                              |                                                                                                                                                                                                                                                                                  |                                                                                                              |                                                                                                |
| <b>L</b><br><br>LED & Wires fitted | <b>L 1050 00</b><br><br>5mm LED with focusing reflector   |  8.0<br> 7.0max<br> T85 | <br>2.9<br>13.4<br>17.9 | <br>Ø10.0 |

# LED Lamps and LED Lampholders - Designed to IP66

LED Lampholders can be supplied with or without lamps

## Colours:

Red, Yellow and Green LEDs  
(High Intensity is standard. Option of extra super bright)

## Voltages:

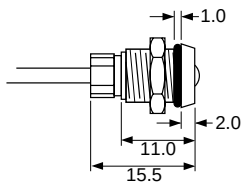
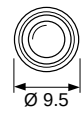
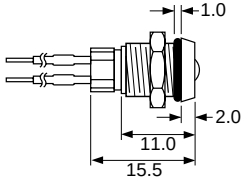
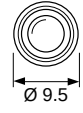
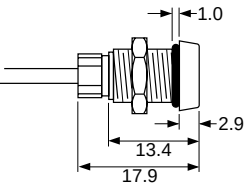
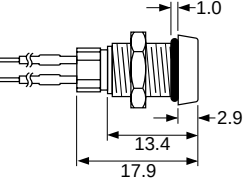
LEDs are available for direct connection to 2.0/2.2V. or 12Vdc  
For other voltages contact the factory

## To create a catalogue number:

Refer to the 2 columns below (terminal and type)

Then state:

LED colour and voltage and body finish (Black or Chrome)

| TERM                                                                                                                  | TYPE                                                                                                                                                          | PANEL & °C                                                                                                                                                                                                                                                                       | DIMENSIONS (mm)                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>W</b><br><br>LED fitted           | <b>(W) 1048 OA</b> Designed to IP66<br><br>5mm LED                           |  8.0<br> 5.5max<br> T85       | <br>     |
| <b>A</b><br>LED not fitted                                                                                            |                                                                                                                                                               |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                |
| <b>L</b><br><br>LED & Wires fitted   | <b>L 1048 OA</b> Designed to IP66<br><br>5mm LED                            |  8.0<br> 5.5max<br> T85    | <br>   |
| <b>W</b><br><br>LED fitted         | <b>(W) 1050 OA</b> Designed to IP66<br><br>5mm LED with focusing reflector |  8.0<br> 7.0max<br> T85 | <br> |
| <b>A</b><br>LED not fitted                                                                                            |                                                                                                                                                               |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                |
| <b>L</b><br><br>LED & Wires fitted | <b>L 1050 OA</b> Designed to IP66<br><br>5mm LED with focusing reflector   |  8.0<br> 7.0max<br> T85 | <br> |

## Properties

### Sealing

O-ring sealing equivalent to IP66, of both the LED to bezel, and bezel to panel is available where shown

### Polarity

The nylon base mouldings are polarity marked

### Body Material and Finish

Chromed brass or Black oxide coated brass

### Lampholders only

Items prefixed 'A' are supplied without LEDs

### LED wires or PVC covered wire leads

125mm min length wires, 6.3mm standard strip  
Alternative colours, length and strip available

# Low Voltage Lampholders *with sealing option*

Bulbs will be supplied (dependant on order quantity)  
if a voltage is specified  
These lampholders are suitable for up to 50V max.

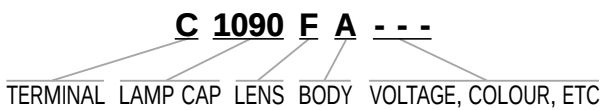
Colours - Red, Amber, Green, (Clear & Blue, check availability)  
Brass bodies have polished chrome finish

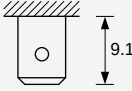


 C1090FP - - -

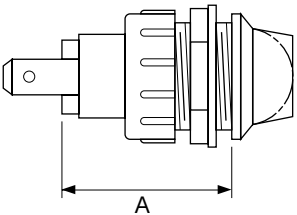


 C1090FL - - -



| ▶ TERMINAL                                                                                                   | LAMP CAP                                                                                                   | LENS                                                                                                     | THREADED BODY                                                                                                            |                                               |                    |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------|
| <b>C</b><br><br>6.3 x 0.8 | <b>1090</b><br>E10<br>  | <b>F</b><br>Flat<br>  | <b>Panel Hole Dia.</b>                                                                                                   | <b>Body Material</b><br><i>for E10 types</i>  | <b>Dimension A</b> |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>A</b> 19.0                                                                                                            | Brass                                         | 35.0               |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>D</b> 19.0                                                                                                            | Brass                                         | 30.2               |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>E</b> 19.0                                                                                                            | Nylon                                         | 30.2               |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>*P</b> 19.0                                                                                                           | Nylon (+ chrome trim)                         | 30.2               |
|                                                                                                              |                                                                                                            | <b>V</b><br>Domed<br> | <b>G</b> 19.0                                                                                                            | Brass                                         | 24.6               |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>H</b> 19.0                                                                                                            | Nylon                                         | 24.6               |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>L</b> 25.4                                                                                                            | Brass                                         | 30.2               |
|                                                                                                              | <b>1091</b><br>BA9s<br> | N/A for L & M body                                                                                       | <b>Panel Hole Dia.</b>                                                                                                   | <b>Body Material</b><br><i>for BA9s types</i> | <b>Dimension A</b> |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>B</b> 19.0                                                                                                            | Brass                                         | 35.0               |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>C</b> 19.0                                                                                                            | Nylon                                         | 35.0               |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>*Q</b> 19.0                                                                                                           | Nylon (+ chrome trim)                         | 35.0               |
|                                                                                                              |                                                                                                            |                                                                                                          | <b>M</b> 25.4                                                                                                            | Brass                                         | 41.8               |
|                                                                                                              |                                                                                                            | <b>L</b><br>No lens                                                                                      | All E10 and BA9s types are suitable for panel thickness up to 6.2mm. Some versions will accept panels up to 11.2mm thick |                                               |                    |

## DIMENSIONS mm



## OPTIONS

### Sealing

Neoprene washers to seal between bezel and panel (W23) and lens and bezel (W24) to give a seal equivalent to IP66 are available on most versions

### F0445 MO

P.V.C. Insulating terminal cover.



\*Note P and Q body codes denote a nylon body fitted with a chrome bezel trim (previously **F0413PO**)

# IEC Connectors & NEMA Receptacles



10A 250Vac

UL CSA 10A 250Vac UL 65°C

Terminal data shown at section end

For stock availability & additional options call the factory

## To order:

State type number, connector terminal code, switch terminal code (if applicable), and for snap-in items, the panel thickness. Stocked items are for 1.0mm panels

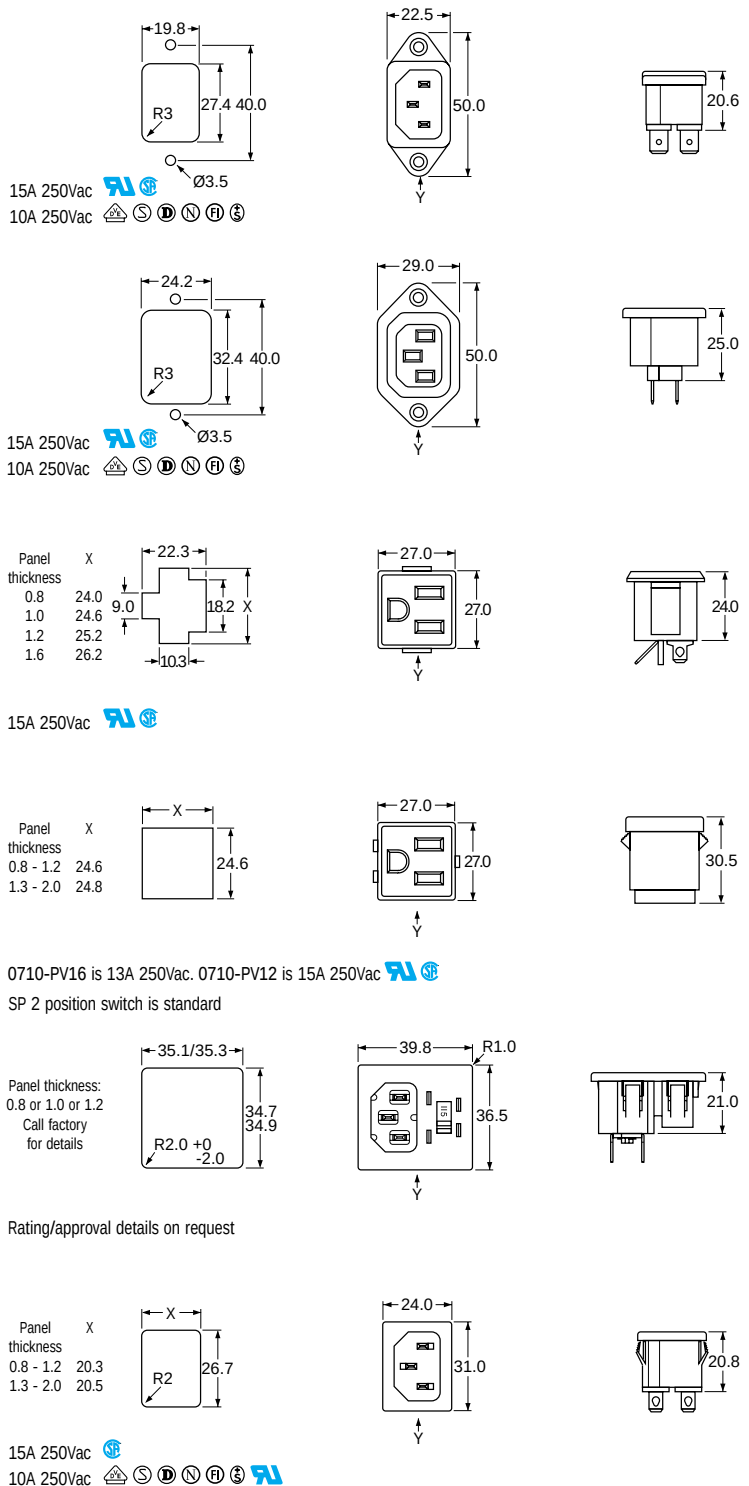
**0711-1S LS K 1.0mm**

TYPE      TERMINAL (connector)      TERMINAL (switch)      PANEL thickness

**DIMENSIONS (mm)**

View below is at Y

| TYPE                                            | TERMINAL                                                                                                                            |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>0707-1-C</b><br>(2k min order)<br><br>Inlet  | <b>S</b> 2.5 Solder<br><b>N</b> 4.0 Solder<br><b>Q</b> 4.8 Tab<br><b>W</b> 6.3 Tab                                                  |
| <b>0708-1-C</b><br><br>Outlet                   | <b>N</b> 4.0 Solder<br><b>Q</b> 4.8 Tab<br><b>W</b> 6.3 Tab<br><b>P</b> PCB                                                         |
| <b>0709-P</b><br><br>Outlet                     | <b>L</b> 4.0 Solder<br><b>Q</b> 4.8 Tab                                                                                             |
| <b>0710-P</b><br><br>Outlet                     | <b>V12</b> Solid Wire<br><b>V16</b> Solid Wire                                                                                      |
| <b>0711-1S</b><br><br>Inlet with Voltage Select | <b>LS</b> 2.8 Solder  Connector<br><b>Q</b> 4.8 Tab/Solder  Connector<br><b>T</b> 3.0 Solder  Switch<br><b>K</b> 2.8 Solder  Switch |
| <b>0711-P</b><br>(2k min order)<br><br>Inlet    | <b>S</b> 2.5 Solder<br><b>N</b> 4.0 Solder<br><b>Q</b> 4.8 Tab<br><b>W</b> 6.3 Tab                                                  |



# IEC Connectors & NEMA Receptacles



10A 250Vac

UL CSA 10A 250Vac UL 65°C

Terminal data shown at section end

For stock availability & additional options call the factory

## To order:

State type number, connector terminal code, switch terminal code (if applicable), and for snap-in items, the panel thickness. Stocked items are for 1.0mm panels

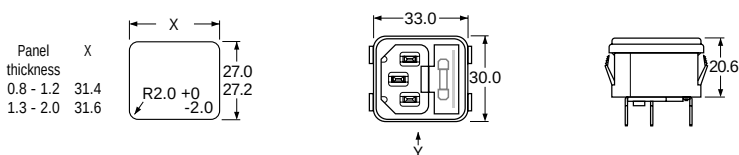
**0717-1S Q T 1.0mm**

TYPE      TERMINAL (connector)      TERMINAL (switch)      PANEL thickness

## DIMENSIONS (mm)

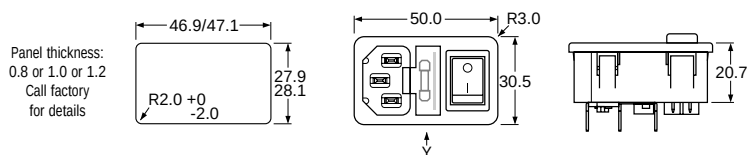
View below is at Y

| TYPE                                                                                                                                                | TERMINAL                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>0717-1-P</b><br><br>Fused Inlet 5x20                            | <b>S</b> 2.5 Solder<br><b>LS</b> 2.8 Solder<br><b>Q</b> 4.8 Tab<br><b>W</b> 6.3 Tab |
| <b>0717-1S State "Non Lit"</b><br><br>Switched Fused Inlet 5x20   | <b>Q</b> 4.8 Solder Connector<br><b>T</b> 4.8 Solder Switch                         |
| <b>0717-1S State "Lit"</b><br><br>Switched Fused Inlet 5x20      | <b>Q</b> 4.8 Solder Connector<br><b>T</b> 4.8 Solder Switch                         |
| <b>0717-C</b><br><br>Fused Inlet 5x20                            | <b>S</b> 2.5 Solder<br><b>LS</b> 2.8 Solder<br><b>Q</b> 4.8 Tab<br><b>W</b> 6.3 Tab |
| <b>0717-2-C</b><br>(2k min order)<br><br>Double Fused Inlet 5x20 | <b>S</b> 2.5 Solder<br><b>LS</b> 2.8 Solder<br><b>Q</b> 4.8 Tab<br><b>W</b> 6.3 Tab |
| <b>0717-2-P</b><br>(2k min order)<br><br>Double Fused Inlet 5x20 | <b>S</b> 2.5 Solder<br><b>LS</b> 2.8 Solder<br><b>Q</b> 4.8 Tab<br><b>W</b> 6.3 Tab |



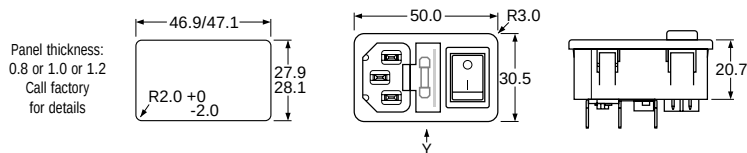
10A 250Vac

DP non-illuminated switch is standard

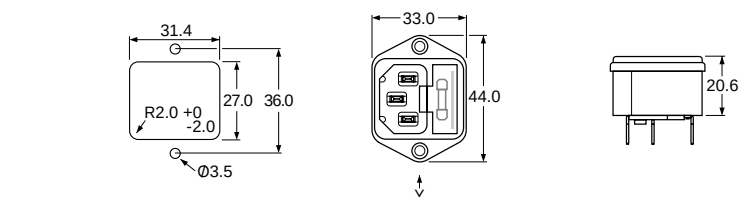


10A 250Vac

DP illuminated switch is standard

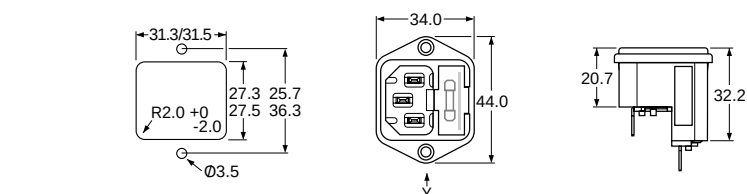


10A 250Vac



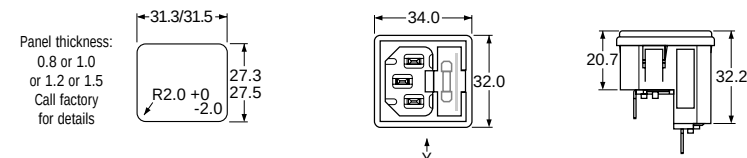
10A 250Vac

0717-2-C For applications (eg medical equipment) where both live & neutral feeds must be fused

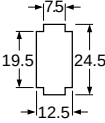
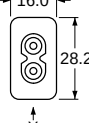
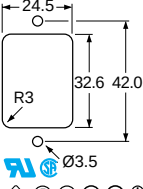
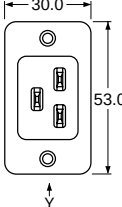
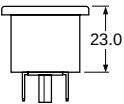
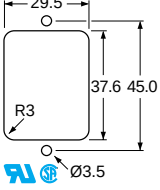
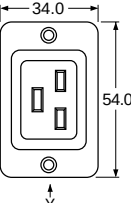
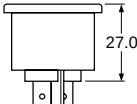


10A 250Vac

0717-2-P For applications (eg medical equipment) where both live & neutral feeds must be fused



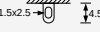
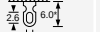
10A 250Vac

| TYPE                                                                                                                             | TERMINAL                                | DIMENSIONS (mm)                                                                                                               | View below is at Y                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0721-P</b><br>(2k min order)<br><br>Inlet    | <b>S</b> Solder                         | Panel thickness 0.8 - 1.3<br><br>2.5A 250Vac | <br>     |
| <b>0722-C</b><br>(2k min order)<br><br>Inlet   | <b>Q</b> 4.8 Solder<br><b>W</b> 6.3 Tab | <br>20A 125Vac<br>16A 250Vac               | <br>   |
| <b>0723-C</b><br>(2k min order)<br><br>Outlet | <b>Q</b> 4.8 Solder<br><b>W</b> 6.3 Tab | <br>20A 125Vac<br>16A 250Vac              | <br> |

## Technical data

Mouldings V2 (V0 option)  
 Connectors Tin plated solid brass  
 Terminals Silver plated

## Terminal dimensions

| For Connectors                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       | For Switches                                                                          |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| S                                                                                   | N                                                                                   | Q                                                                                   | W                                                                                   | P                                                                                   | L                                                                                   | LS                                                                                  | V12                                                                                   | V16                                                                                   | Slide T                                                                               | Slide K                                                                               | Rocker T                                                                              |
| 2.5mm Solder                                                                        | 4mm Solder                                                                          | 4.8mm Solder/<br>Fast on                                                            | 6.3 Fast on                                                                         | PCB                                                                                 | Solder                                                                              | 2.8mm Solder                                                                        | 12-14 AWG<br>Solid Wire                                                               | 16 AWG<br>Solid Wire                                                                  | Solder                                                                                | 2.8mm Solder                                                                          | 4.8mm Solder                                                                          |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 1.5x2.5<br>4.5                                                                      | 2.0x3.2<br>5.5                                                                      | 2.8x3.3<br>6.5                                                                      | Ø1.7<br>8.0                                                                         | 1.7x3.0<br>5.5                                                                      | Ø3.0x6.0                                                                            | 1.5x3.0<br>10.0                                                                     | 1.35                                                                                  | 0.8                                                                                   | 2.5<br>6.0<br>1.6                                                                     | 2.5<br>7.0<br>1.3                                                                     | R1.0<br>R0.8<br>3.5<br>8.5                                                            |

Note: Designated solder terminals should not be fitted with "Push on", "QD" or "Fast on" type cable connectors

# Fuseholders 5 x 20 mm



6.3A 250Vac (max fuse rating\*) T-55 to T+70 (ambient)

Maximum dissipation wattage: 1.5W

UL 94V2 UL file E92075 CSA file LR44770

These products comply with safety category PC2

\*Users should be aware of the de-rating factors published by specialist manufacturers of fuses

These fuseholders are fitted with combination (solder / 2.8) mid-body terminals

It has not been possible to show both views here

**T 0332 RA -----**  
 TERMINAL BODY & CAP PANEL HOLE OPTIONS



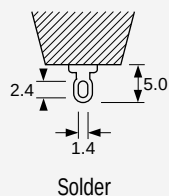
**M520**  
Terminal Cover



**A0033 00**  
In-line 5 x 20 fuseholder  
Call factory for rating details

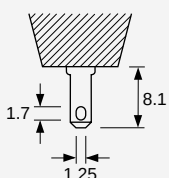
## TERMINAL

**T**



Solder

**B**



2.8 x 0.5

## BODY AND CAP

**0332**

Finger release



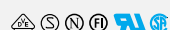
**0333**

Tool release



**0340**

Tool release



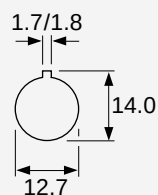
**0341**

Tool release

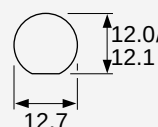


## PANEL HOLE

**RA**

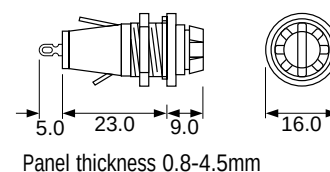


**RD**



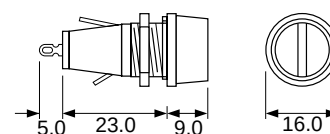
## DIMENSIONS (mm)

**0332** (T terminal shown)



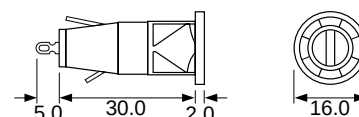
Panel thickness 0.8-4.5mm

**0333** (T terminal shown)



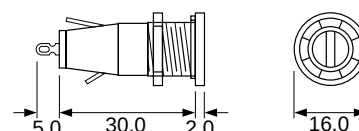
Panel thickness 0.8-4.5mm

**0340** (T terminal shown)



Panel thickness 0.8-2.0mm

**0341** (T terminal shown)



Panel thickness 0.8-4.5mm

# Fuseholders 6 x 30 mm (1¼"x¼")



16A 250Vac (max fuse rating\*) T-55 to T+70 (ambient)

Maximum dissipation wattage: 2.5W

UL 94V2 UL file E92075 CSA file LR44770

These products comply with safety category PC2

\*Users should be aware of the de-rating factors published by specialist manufacturers of fuses

Fuseholders with in-line termination have combination (4.8 / 6.3) terminals. It has not been possible to show both views here. Units with right angle terminals have user specified end terminals and combination mid-body terminals



**M873**

Cover for C & T terminals



**A0035 00**

In-line 6 x 30 1¼ x ¼ fuseholder  
Call factory for rating details

**T 0347 RA -----**  
TERMINAL BODY & CAP PANEL HOLE OPTIONS

| ▶ TERMINAL                                      | ▶ BODY AND CAP                         | ▶ PANEL HOLE                                                                              | DIMENSIONS (mm)                                                          |
|-------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8                       | <b>0345 (C terminal shown)</b><br><br> | <b>RA</b><br><br>Panel thickness<br>0.8 - 2.0mm for snap-in<br>0.8 - 4.5mm for nut fixing | <b>0345 (C terminal shown)</b><br><br><b>0345 (D terminal shown)</b><br> |
| <b>D</b><br><br>6.3 x 0.8<br>Right angle        | <b>0345 (D terminal shown)</b><br><br> | <b>RD</b><br><br>Panel thickness<br>0.8 - 2.0mm for snap-in<br>0.8 - 4.5mm for nut fixing | <b>0347 (C terminal shown)</b><br><br><b>0347 (D terminal shown)</b><br> |
| <b>T</b><br><br>4.8 x 0.8<br>Solder             | <b>0347 (T terminal shown)</b><br><br> |                                                                                           |                                                                          |
| <b>U</b><br><br>4.8 x 0.8<br>Right angle solder | <b>0347 (U terminal shown)</b><br><br> |                                                                                           |                                                                          |

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# Conditions of sale

*For the purposes of the following Conditions of Sale, the words "The Company" refer to Arcoelectric Switches plc.*

**CATALOGUES** Catalogues, price lists and other advertising matter are an indication of the type of goods offered and no prices or other particulars contained therein shall be binding.

**PRICES** Quotations are open for acceptance within 30 days. Prices on orders issued within that period are guaranteed firm for three months from the date of formal acknowledgement. Deliveries extending beyond the initial six months will be invoiced at the prices shown in the Company's then current price list.

Notwithstanding any clauses attached to Customers' orders, the Company's formal acceptance of the order is made on the understanding that this clause applies and is accepted by the Customer unless expressly waived, in writing, by the Company.

**PAYMENT** Unless otherwise agreed in writing, payment in full is due immediately in respect of any goods delivered. Until payment is made in full, the goods shall remain the property of the Company, but the risk therein and all liability to third parties in respect thereof shall pass to the customer on delivery.

**SETTLEMENT** Credit terms can be arranged for customers taking regular deliveries of goods, such payment terms are 30 days from date of invoice, or such other terms as agreed and are strictly nett. For infrequent purchases and/or low value orders payment against a pro-forma invoice is required.

No discount is allowed for early payment or payment against a pro-forma invoice. Failure to pay in accordance with these terms will result in the Company instructing a third party to obtain settlement. Any costs incurred thereby will be charged to the Customer. The Company reserves the right to charge interest on overdue debts at a rate of 4% above HSBC Bank base rate.

**DESPATCH** Any times quoted for despatch are to be treated as estimates only and the Company shall not be liable for failure to despatch within such time. In all cases, whether a time for despatch be quoted or not, the time for despatch shall be extended by a reasonable period if delay in despatch is caused by instructions or lack of instructions from the Customer or by industrial dispute, or by any cause whatsoever beyond the reasonable control of the Company.

**MINIMUM ORDER QUANTITY** Please discuss your likely batch quantity requirements with our Sales department prior to ordering. On some items, ie coloured switches or special printing, MOQ's of 1000 or more may apply.

**CARRIAGE** The Company reserves the right to make nominal charges for handling, packaging and carriage on all orders.

**DAMAGE OR LOSS IN TRANSIT** If the Customer wishes the Company to make a claim on the carriers for a parcel damaged in transit, the Customer must notify the carriers and the Company within 3 working days of receipt. If a consignment fails to arrive within ten working days of the Customers' receipt of an advice note and invoice from the Company, the Customer should immediately notify the carrier and the Company. Claims can only be considered if made within this period. Shortage claims on consignments not damaged in transit should be made within seven working days.

**REJECTION** Unless otherwise agreed, goods rejected by the Customer as not complying with the contract must be advised within 7 working days of receipt.

**DEFECTS AFTER DELIVERY** The Company will make good by repair, or at the Company's option, by the supply of a replacement, defects which under proper use, appear in the goods within a period of twelve calendar months after the goods have been delivered, and arise solely from faulty design, workmanship or materials, always provided that the defective parts have been returned to the Company if it be so required.

The liability of the Company under this clause shall be in lieu of any warranty or condition implied by the law as to the quality or fitness for any particular purpose of the goods, and save as provided in this clause the Company shall not be under any liability, whether in contract, tort or otherwise, in respect of defects in goods delivered or for any injury (other than personal injury caused by the Company's negligence as defined in Section 1 of the Unfair Contract Terms Act 1977), damage or loss resulting from such defect or from any work done in connection therewith. Provided however, that nothing in this clause shall operate to exclude any warranty or condition implied by law as to the quality of the goods in the event that the goods when sold by the Customer or when sold by any person or persons to whom the Customer may sell the goods shall become the subject of a consumer sale as defined in the Supply of Goods (Implied Terms) Act 1973, except to the extent that any claim under such warranty or condition shall have arisen from any act or omission by the Customer or by any other person or persons selling the goods by way of a consumer sale.

**UK HEALTH AND SAFETY ACT 1974** Detailed approval information is available on application. Approvals do not always cover every version of a component. Switches with metal levers (or metal fixing systems) do not comply with the latest standards on safety unless the fixing plate is reliably earthed. Product descriptions are, of necessity, abridged and users should always give full details of electrical load and environmental conditions so that a check can be made that the component is suitable for the application. Switch ratings are, unless otherwise stated, resistive at 250 Vac, T55. Transparent lenses on signal lamps, neon indicators and lit switches are moulded in polycarbonate, a material which is attacked by hydrocarbons.

**ARBITRATION** If at any time any question, dispute or difference whatsoever shall arise between the Customer and the Company in relation to or in connection with the contract, either party may give to the other party notice in writing of the existence of such question, dispute or difference and the same shall be referred to the arbitration of a third party to be mutually agreed upon, or failing agreement within 14 days of receipt of such notice, a party appointed by the president, at the time, of the UK organisation known as the Federation of British Electrotechnical and Allied Manufacturers' Associations. Any legal recourse requiring judiciary judgement shall take place through the courts and country of the Company's choice.

**LEGAL CONSTRUCTION** Unless otherwise agreed in writing, the contract shall in all aspects be construed and operate as an English contract and in conformity with English law.

**STATUTORY AND OTHER REGULATIONS** If the cost to the Company of performing its obligations under the contract, be increased or reduced by reason of the making or amendment after the date of tender of any law or of any order, regulation, or bye-law having the force of law that shall affect the performance of the Company's obligations under the contract, the amount of such increase or reduction shall be added to or deducted from the contract price as the case may be.

**OVER RUNS** Where products are manufactured as special for a Customer, for instance colour, marking or circuit, the Company reserves the right to despatch up to a maximum of 5% excess at the end of the order or at the completion of the schedule.

## Arcoelectric Agents

### ARGENTINA - Buenos Aires

#### Cristina Rogers

e: crisrogers@fibertel.com.ar  
t: +54 11 4797 5480 f: +54 11 4797 5480

### AUSTRALIA - Sydney

#### Beal Pritchett Pty Limited

e: BealPritchett@bigpond.com  
t: +612 9437 6124 f: +612 9438 3379

### AUSTRIA - Hörsching

#### Höllinger Industrie Vertrieb

e: gerhard.hoellinger@aon.at  
t: +43 7221 74622 f: +43 7221 74622 21

### BELGIUM - Brussels

#### Sprl Usitec Bvba

e: usitec@skynet.be  
t: +32 2 343 70 52 f: +32 2 343 53 34

### CANADA

#### Arcoelectric Corporation (Los Angeles)

e: info@arcoelectric.com  
t: +1 818 700 1933 f: +1 818 700 9541

### CHINA (Northern) - Qingdao

#### Widline Industrial Supply Co. Ltd

e: landw@public.qd.sd.cn  
t: +86 532 607 1971/1981 f: +86 532 607 1991

### HUNGARY - Budapest

#### Lomex KFT

e: info@lomex.hu  
t: +361 349 5906 f: +361 320 3292

### INDIA - Mumbai

#### Importex

e: importex@vsnl.net  
t: +91 22 2361 2592 f: +91 22 2361 5097

### REPUBLIC OF IRELAND - Dublin

#### Flynn Equipment Limited

e: flynn.equipment@indigo.ie  
t: +353 1289 8727 f: +353 1289 8726

### ISRAEL - Tel Aviv

#### A.S.R. (Avi Sasson Representatives)

e: asr@isdnet.il  
t: +97 2350 15322 f: +97 2350 31986

### ITALY - Milan

#### Fusit Srl

e: fusit@fusit.it  
t: +3902 26 68 00 53 f: +3902 26 68 02 97

### KOREA - Seoul

#### electroCOM

e: electrocom@empal.com  
t: +82 2473 0840-2 f: +82 2486 1609

### SINGAPORE - Singapore

#### Hitachi High-Technologies (S) Pte Ltd

e: bernard-tan@hitachi-hitec.com.sg  
t: +65 6733 2787 f: +65 6737 8187

### SINGAPORE - Singapore

#### Jelco Private Limited (Stockist)

e: jelco@cyberway.com.sg  
t: +65 6561 1988 f: +65 6567 6242

### SLOVAKIA - Skalica

#### Amicus sk.spol.sr.o

e: amicus@ba.psg.sk  
t: +421 801 664 8644 f: +421 801 664 8530

### SLOVENIA - Postojna

#### Ventes d.o.o.

e: ventes@siol.net  
t: +386 1 709 7250 f: +386 1 709 7251

### SOUTH AFRICA - Johannesburg

#### O & C Alexander Sales (Pty) Limited

e: ocalex@mweb.co.za  
t: +27 11 403 3332 f: +27 11 403 1026

### SPAIN - Barcelona

#### Ermec

e: ermec@ermec.com  
t: +34 93 450 1600 f: +34 93 433 0885



### CYPRUS - Nicosia

#### Solmatic Ltd

e: SOLMATIC@cytanet.com.cy  
t: +357 249 7907 f: +357 231 4844

### CZECH REPUBLIC - Prague

#### Ampra CZ s.r.o.

e: ampracz@ampra.cz  
t: +420 2 8393 1122/2244 f: +420 2 8393 3344

### DENMARK - Hvidovre

#### Chemo Electric A/S

e: info@chemolec.dk  
t: +45 36 77 30 44 f: +45 36 77 30 88

### FINLAND - Turku

#### OEM Automatic OY

e: jouni.joutsio@fi.oem.se  
t: +358 2 4120 400 f: +358 2 4120 496

### FRANCE - Champs sur Marne

#### B.R.N. Composants

e: brn.composants@libertysurf.fr  
t: +33 1 45 16 12 32 f: +33 1 45 16 12 38

### GERMANY - Fulda

#### Maluska Elektronik GmbH

e: info@maluska.de  
t: +49 661 9475-0 f: +49 661 9475-30

### GREECE - Athens

#### Extant Limited

e: interep@otenet.gr  
t: +30 210 861 6334 f: +30 210 861 7622

### MEXICO

#### Arcoelectric Corporation (Los Angeles)

e: info@arcoelectric.com  
t: +1 818 700 1933 f: +1 818 700 9541

### NETHERLANDS - Achterveld

#### Calpe BV

e: info@calpe.nl  
t: +31 342 45 15 44 f: +31 342 45 13 64

### NORWAY - Drammen

#### OEM Automatic A/S

e: info@no.oem.se  
t: +47 3289 7270 f: +47 3289 7280

### PHILIPPINES - Makati City

#### Pylon International Trading Corporation

e: pylontesting@yahoo.com  
t: +632 892 8458 f: +632 812 8703

### POLAND - Warsaw

#### Elemco Jacek Piskorski

e: elemco@medianet.pl  
t: +48 22 877 3773 f: +48 22 877 3773

### PORTUGAL - Cascais

#### Hotelec Equipamentos Electricos Lda

e: hotelec@netcabo.pt  
t: +351 214 832 681 f: +351 214 831 550

### ROMANIA - Bucharest

#### LS Electronic Components

e: constantin.savu@ecas.ro  
t: +40 21 230 2550 f: +40 21 231 2173

### RUSSIA - St Petersburg

#### ElectroMir

e: erk@electromir.com  
t: +7 812 320 6488 f: +7 812 320 6490

### SWEDEN - Tranås

#### OEM Component AB

e: info@comp.oem.se  
t: +46 140 360 600 f: +46 140 360 699

### SWITZERLAND - Lausanne

#### Orlamp SA

e: info@orlamp.ch  
t: +41 21 323 1434 f: +41 21 323 4214

### TAIWAN - Taipei

#### Inalways Corporation

e: inalways@mail.inalways.com.tw  
t: +886 22 299 6370 f: +886 22 299 7053

### THAILAND - Bangkok

#### Vutipong Electronic Co. Ltd

e: vutipong5@hotmail.com  
t: +662 226 6496-9 f: +662 623 8617

### TURKEY - Izmir

#### Metot Sanayi Ve Ticaret Limited Sti

e: metot@superonline.com  
t: +90 232 252 4824 f: +90 232 252 4825

### USA - Los Angeles

#### Arcoelectric Corporation

e: info@arcoelectric.com  
t: +1 818 700 1933 f: +1 818 700 9541

## UK Stockists

### Arrow Catalogue

#### Essex

t: 01279 626777 f: 01279 441687  
e: sales@arrowuk.com

### Farnell Electronic Components Ltd

#### Yorkshire

t: 0870 1200 200 f: 0870 1200 201  
e: sales@farnell.com

### E Preston Electrical Ltd

#### Cheshire

t: 0161 339 5177 f: 0161 343 1935  
e: sales@epreston.co.uk

### R S Components

#### Northants

t: 01536 201201 f: 01536 201501  
e: general@rswww.com

Arcoelectric Switches plc,  
Central Avenue,  
West Molesey, Surrey  
England KT8 2RF

tel: +44 (0)20 8979 3232  
fax: +44 (0)20 8979 2565  
info@arcoswitch.co.uk  
www.arcoelectric.co.uk