Index

appliance switches

indicator lamps

fuseholders

IEC sockets

arcolectric

Solutions **for appliance & electronic applications**

Catalogue 168
April
2003

this catalogue is available on CD
and on www.arcolectric.co.uk

Arcolectric SWITCHES PLC

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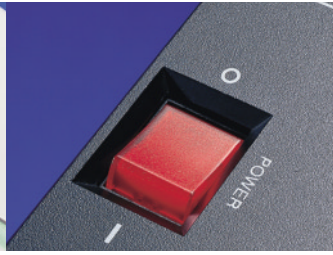
arcolectric



Solutions | **for appliance & electronic applications**

Arcolectric Switches plc

Head Office, Sales and R&D

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Web www.arcolectric.co.uk

Directors

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H.J.A. Cowley	Managing Director
J. Harris	Technical Director
J. Collier	Director
M.A. Collier	Director
I. Ranken Collins	Non-executive Director
Company Secretary	D. Birdwood-Hedger
Export Sales	H.J.A. Cowley L.A. Hamon
UK Sales	C. Macdonald

North American Customers

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9001 Canoga Avenue, Canoga Park,
California 91304, USA.

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President Carrie Bonica

Arcolectric worldwide

Arcolectric 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.

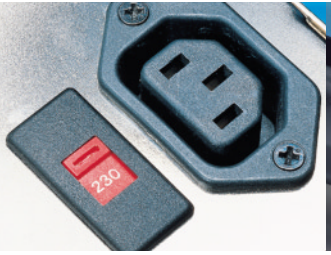
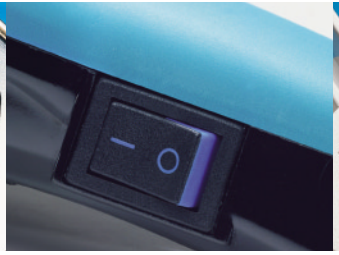
We have two fully integrated factories totalling 90,000 sq.ft. in Surrey, England, where we manufacture mouldings, springs, pressings and turnings. The majority of our product is assembled automatically.

Arcolectric 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.

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

Profile


Approvals

The majority of Arcolectric 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.

CE Appliances bearing the CE mark are able to circulate freely in Europe. Products in this catalogue, when fitted correctly, comply with the CE 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

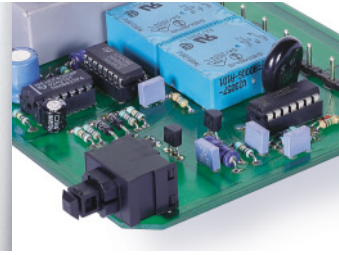
The Hong Kong and Shanghai Banking Corporation Limited,
1 Queen's Road, Central, Hong Kong.
U.S. Dollar Account No. 600-833255
Hong Kong Dollar Account No. 600-833255-001

contents

GO

GO



Solutions | **for appliance & electronic applications**

Production

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.

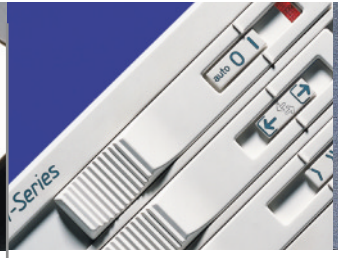
60,000 Miniature Springs

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.

CONTS

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.

Arcolectric is the largest manufacturer of appliance switches in the UK.

CONTS

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 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 (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
0055, 0056	5.7/6.8
0305	32.9
0333	4.5
0345	8.9
0340 sw only	7.12
0340K/P	25.0
0430	5.5
0589	3.5
0711-1S	16.6
0712-S	27.8
0717-1S	22.4
0900S/L	2.6/2.9

Product	gms
1048	2.8
1091FH	12.6
1091FL	52.8
1100	2.0
1250SP	5.9
1250DP	7.0
1300	5.7
1350	11.2
1500	5.7
1520	6.6
1550	11.2
1553	11.8

Product	gms
1570	12.7
1584-1589	11.1
1700H	8.4
1750H	13.2
1750O	25.6
2000 2pos C SP	3.8
2000 2pos C DP	4.5
2000 5pos A SP	6.3
2000 5pos A DP	7.3
T2225B	5.0
2950	5.3
3111	11.8

Product	gms
5500	7.1
5503	7.8
5567	14.3
6050	13.58
6053	14.15
7000	10.4
7050	12.3
7053	12.9
8250	4.9
8300	4.0
8350	5.0
8350RP	34.0

Product	gms
8353	5.9
8500	3.8
8550	4.8
8553	5.2
8600	3.5
8620	4.3
8650	6.3
8670	8.5
8800	2.9
9100	20.0

Splashproof & Dust Resistant options for Switches

Suitability

A large number of Arcolectric 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

8500 Twin
can be fitted with

L167
Push-on cover

Pages 12 & 14

8600 & 8620
can be fitted with

L167
Push-on cover

Pages 12 & 14

8650 & 8670
can be fitted with

L180
Push-on cover

Page 16

R13 Single pole
can be fitted with

L188
Push-on cover

Page 16

R13 Double pole
can be fitted with

L188
Push-on cover

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

Page 18

6000
has integral
water-thru feature and

G
Snap-on cover option

Page 20

1500 and 1300
available with W or B
Splashproof rockers or

G
Snap-on cover

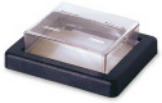
Page 22

5503
can be fitted with

G
Snap-on cover

Page 24

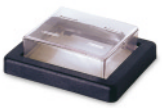
6050
has integral
water-thru feature and



G
Snap-on cover option

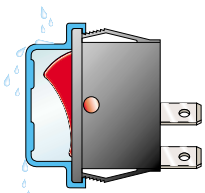
Page 26

1550 and 1350
can be fitted with

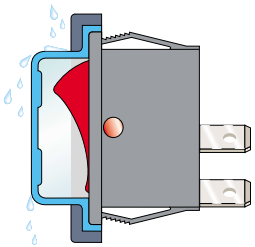


G
Snap-on cover

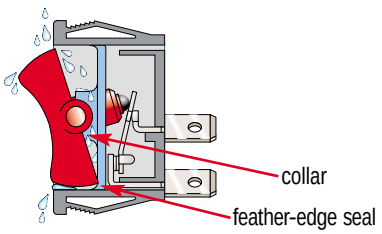
How they work



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*

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CONTS

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

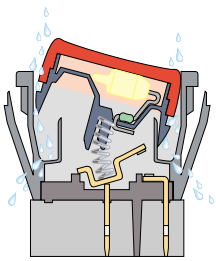
1700 and 1750
can be fitted with

M331, M539, M1080
covers or neck seals

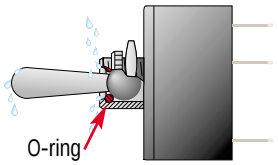
Page 61

0600
can be fitted with

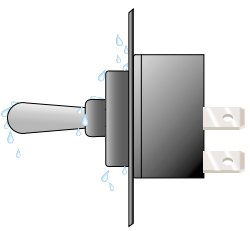
M331, M539, M1080
covers or neck seals



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

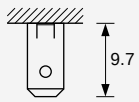
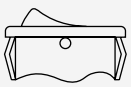
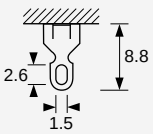
UL CSA 15A 250Vac (Twin unit is 10A 250Vac)
UL CSA 125Vac 1/2hp
UL 100˚C, file E45221, CSA file LR10990

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
H  4.8 x 0.8		 Switches are ON when pressed over terminal 1	**V** Curved 
	8800 ♦	 ON - OFF Single pole	
	Factored product **8801** Call factory for ratings & dimensions	 ON - OFF (momentary ON) Single pole	
T  3.5 x 0.8 Solder	Factored product **8802** Call factory for ratings & dimensions	 ON - OFF (momentary OFF) Single pole	
		 Switches are ON when pressed over terminals 1 or 3	
	8800/8800	 ON - OFF Twin (Single pole)	

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CONTS

H8800VA ---
T8800VA ---

H8800VA ---
T8800VA ---

H8800V/H8800VA
T8800V/T8800VA

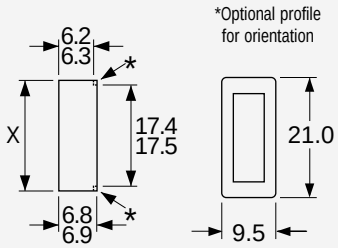
H8800V/H8800VA
T8800V/T8800VA

BODY

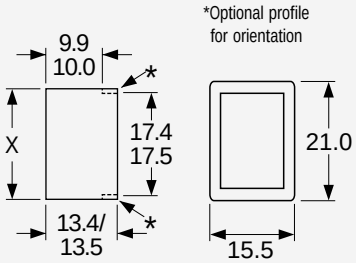
Panel cut-outs Flange

Cut-outs must be punched in the direction of insertion

A Single pole



A Single pole - Twin



Panel thickness	Dim 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

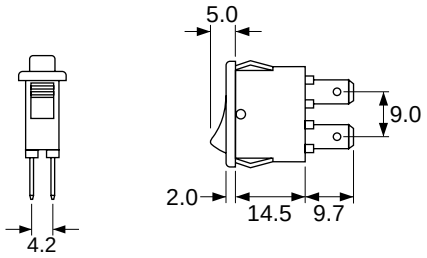
Finish
Matt finish only

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

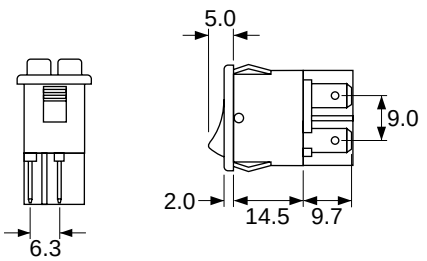
Legend printing
Select from the examples or call the factory for custom legends

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

In house test Inrush 85A to EN61058-1 & 10A 28Vdc

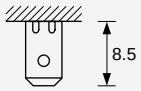
3mm contact gap
Technical data on pages 4 & 5 (switches), 66 (indicators)

H 8550 V B ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

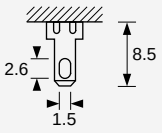
TERMINAL

H



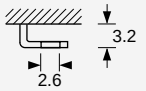
4.8 x 0.8

K



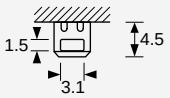
2.8 x 0.8

L



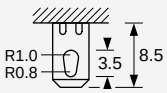
2.8 x 0.8
Right angle version of K terminal available on 8500 only

R



4.8 x 0.8

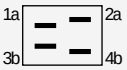
T



Solder

FUNCTION

Approvals & ratings vary with function



On Off Switches are ON when pressed over terminal 1

8500 ♦

ON - OFF
Single pole
(Uses terminals 1a & 2a)

8503 ♦

ON - OFF - Lit
Single pole

8550 ♦

ON - OFF
Double pole

8553 ♦

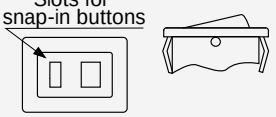
ON - OFF - Lit
Double pole

8580
Available with H terminals only

Indicator

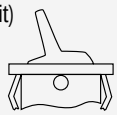
ROCKER

H Slotted for custom adaptors
Slots for snap-in buttons

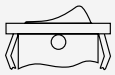


R Semi-rotary

D Paddle lever (8500 only) (not lit)

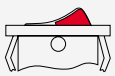


V Curved (not lit)

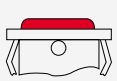


V Curved (lit)

X Two colour (not lit)



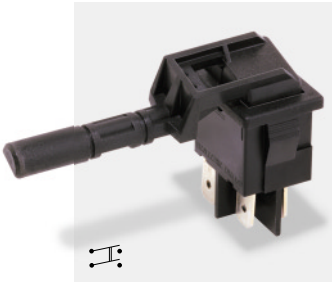
A Softline lens



H8500VB ---
T8500VB ---

H8550VB ---
T8550VB ---

H8550XB ---
T8550XB ---



H8550RB Semi-rotary
A splash proofing option

H8553VB ---
T8553VB ---

H8580AB ---

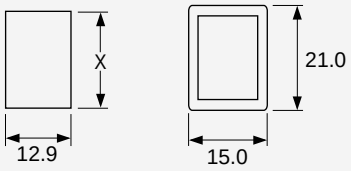
BODY

Panel cut-outs Flange

Cut-outs must be punched in the direction of insertion

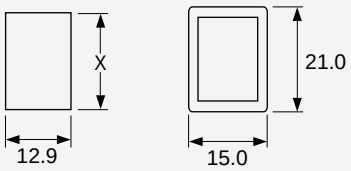
B

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

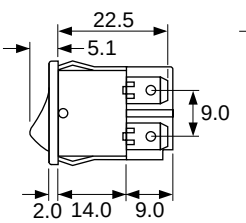
Colour
Call factory for custom colours
A full range is available for large orders

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

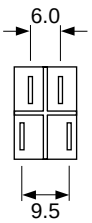
Lamp voltage
Call factory for details of other available voltages

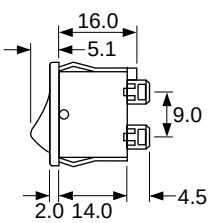
Protective cover L167
(designed to IP65)
Snaps on to bodies with V or X style rockers and A style lens but reduces panel thickness by 0.8mm

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

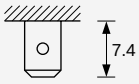
3mm contact gap except where marked µ
Technical data on pages 4 & 5 (switches), 66 (indicators)

H 8653 V B ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

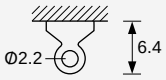
TERMINAL

H



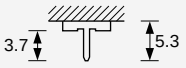
4.8 x 0.8

T



3.5 x 0.8
Solder

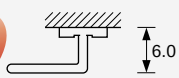
X



PCB*
0.8 Sq

Y

NEW



Right angle PCB
1.3 x 0.8
Contact the factory for details

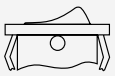
*Switches with "X" terminals are supplied without terminal barriers

FUNCTION

Approvals & ratings vary with function	On Off Switches are ON when pressed over terminal 3	
ON - OFF	**8600** ♦ 10(4)A 16A 250V, 10A 277V	**8650** ♦ 10(4)A 10A 277V
ON - OFF (momentary ON)	**8601** 6(1)A 16A 250V, 6A 277V	**8651** 6(1)A 6A 277V
ON - OFF (momentary OFF)	**8602** 10A 16A 250V, 10A 277V	**8652** 10(4)A 6A 277V
ON - OFF Lit	**N/A**	**8653** 10(4)A 6A 277V
ON - ON	**8610** ♦ 6(1)A 10A 277V	**8660** ♦ 6(1)A 10A 277V, 1/2HP 277V 1/2HP 250V, 1/4HP 277V
ON - OFF (momentary 1 side)	**8611** 6A 277V	**8661** 6A 277V
ON - OFF - ON	**8620** µ See page 14	**8670** µ See page 14
Indicator	**8630**	

ROCKER

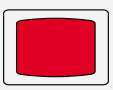
V Curved



V Curved (lit)

D Paddle lever
(Single pole non-lit only)

F Flat
Indicator only (Single pole)



H8600VB ---
T8600VB ---

H8600VB ---
T8600VB ---

H8630FB ---
T8630FB ---

H8650VB ---
T8650VB ---

H8660VB ---
T8660VB ---

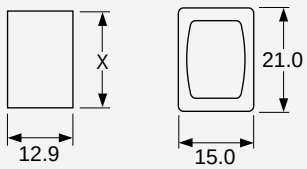
H8653VB ---
T8653VB ---

BODY

Panel cut-outs Flange

Cut-outs must be punched in the direction of insertion

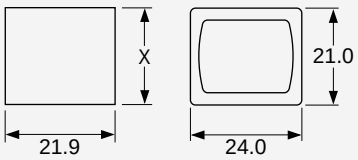
B Single pole



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

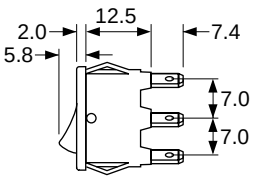
Blanking plate A8634FB
Dummy unit to fill unused panel holes
Single pole size only

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

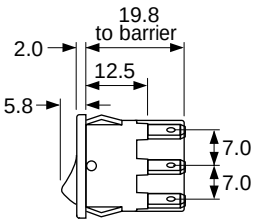
DIMENSIONS (mm)

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 - - -

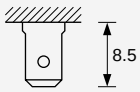
H8670VB - - -
T8670VB - - -

H 8620 V B - - -

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

TERMINAL

H

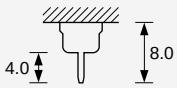


4.8 x 0.8

T

Solder

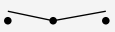
X



PCB 0.8sq
Switches with X terminals are supplied without terminal barriers

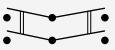
FUNCTION

8620



ON - OFF - ON
Single pole

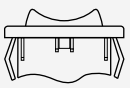
8670



ON - OFF - ON
Double pole

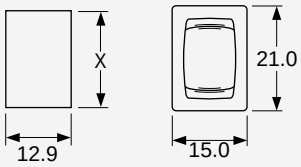
ROCKER

V Curved



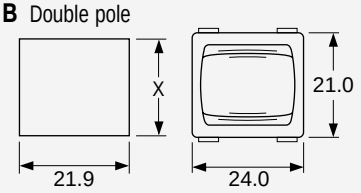
BODY

B Single pole



Panel thickness	Dim 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



Panel thickness	Dim 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

Cut-outs must be punched in the direction of insertion

OPTIONS

Finish
Matt finish only

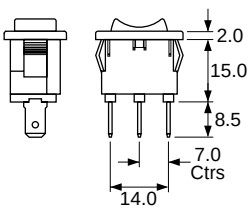
Colour
Call factory
for custom colours.
A full range is available
for large orders

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

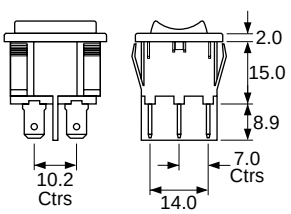
Protective covers IP65
L167 for SP
L180 for DP
(designed to IP65)
Snaps on to body but
reduces panel thickness
by 0.8mm

Dimensions (mm)

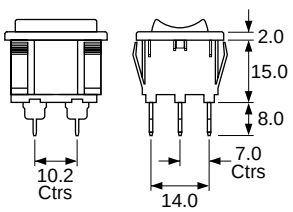
8620VB (H terminals shown)



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 - - -

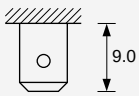
C1250AN - - -

C 1250 A P - - -

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

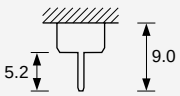
TERMINAL

C



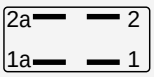
6.3 x 0.8

X



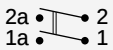
PCB 0.8sq
(N body only)

FUNCTION



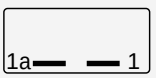
On when pressed over terminal 1

1250



ON - OFF
Double pole

Poles are 9.0mm between centres.



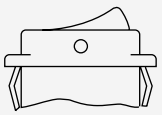
On when pressed over terminal 1

1250SP

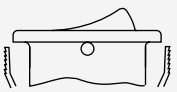
ON - OFF
Single pole

ROCKER

A Curved



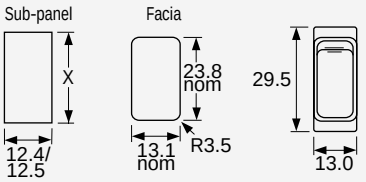
Shown in N body



Shown in P body

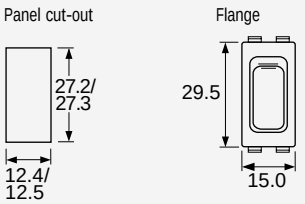
BODY

N Panel cut-out



Panel thickness	Dim X
0.75-1.24	26.1/26.2
1.25-1.99	26.3/26.4
2.00-3.00	26.7/26.8

P Panel cut-out



Panel thickness
0.75-3.00

Cut-outs must be punched in the direction of insertion

OPTIONS

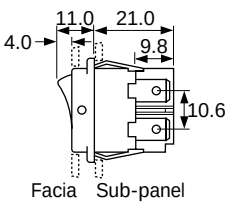
Finish
Matt finish only

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

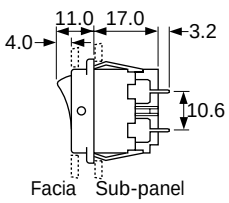
Legend printing
Select from the examples or call factory for custom legends

Dimensions (mm)

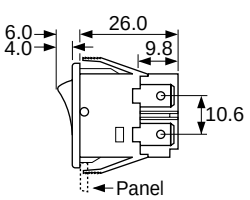
1250AN (C terminals shown)



1250AN (X terminals shown)



1250AP (C terminals shown)



Examples of printing

CL085

CL086

R13 Round Rocker Switches *6A 250Vac*

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 µ 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

1 2
SP ON - OFF µ
Cat no.
R13 112A AAA

1 2 3
SP ON - OFF µ
Lit 230V
Cat no.
R13 112B NAC

1 2
SP ON - OFF µ
Cat no.
R13 112A AAB

1 2 3
SP ON - ON µ
Cat no.
R13 112C AAA

1 2 3
SP ON - OFF µ
Lit 230V
Cat no.
R13 112B NAA

1 2 3
SP ON - OFF - ON µ
Cat no.
R13 112D AAA

1 2 3
SP ON - OFF µ
Lit 230V
Cat no.
R13 112B NAB

only
1 2
SP ON - OFF µ
(Momentary On)
Cat no.
R13 208F AAA*

NEW

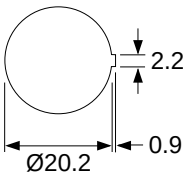
DP ON - OFF
Cat no.
R13 244A AAA

NEW

DP ON - OFF
Lit 230V
Cat no.
R13 244B NAA

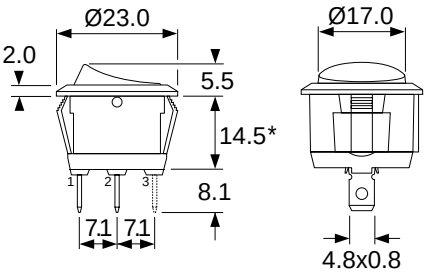
DIMENSIONS (mm)

Panel cut-out



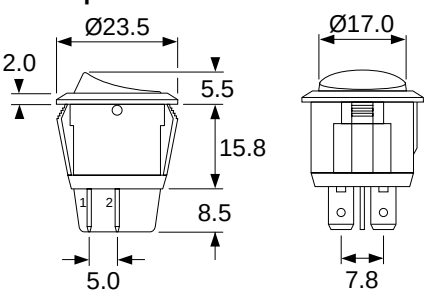
Snap fixing into panel thickness up to 3.0

Single pole



* R13 208F has 12.5mm deep body

Double pole



R13 Round Rocker Switches *6A 250Vac*

Factored product

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 µ 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

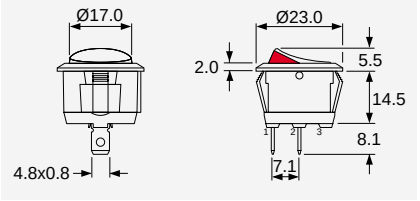
Call the factory for availability to your special requirements

R13 112A2 - -

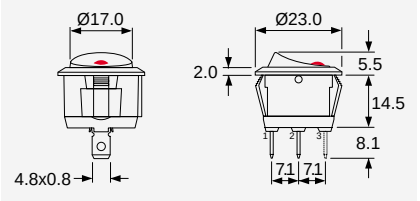
TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

PRODUCT DETAILS

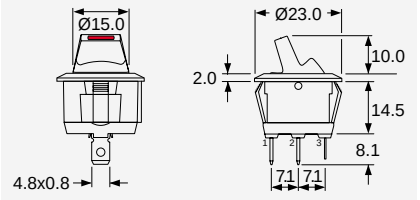
1 2
SP ON - OFF µ
Bright colour ON signal
Cat no.
R13 112A2 - -



1 2 3
SP ON - OFF µ
Lit Window
Cat no.
R13 112B2 - -



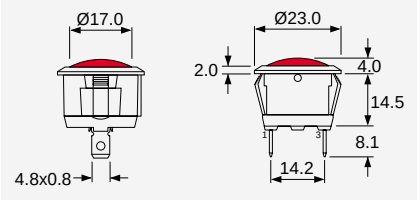
1 2 3+ 3−
SP ON - OFF µ
Paddle tip has red LED
Cat no.
R13 112LP - -



approvals - contact the factory

1 3
Indicator light

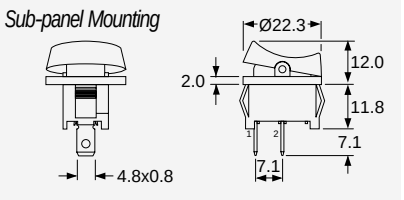
Cat no.
R9 92B - - -



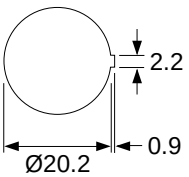
only

1 2
SP ON - OFF µ
R13 211A - - -

1 2 3
SP ON - ON µ
R13 211C - - -



PANEL CUT-OUT (mm)

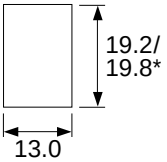


For R13 112A2
R13 112B2
R13 112LP
R9 92B

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+ 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

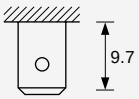
6000 Switches feature *"Arcshield"* to hide visible switching arc
3mm contact gap with Positive Break switching
Call factory for IP details
Technical data on pages 4 & 5 (switches), 66 (indicators)
Patent app.

C 6003 A L ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

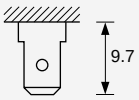
TERMINAL

C



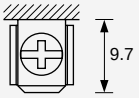
6.3 x 0.8

H



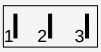
4.8 x 0.8

S



Screw & Clamp
N/A for assemblies with 3 terminals

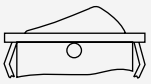
FUNCTION

	Approvals & ratings vary with function On Off Switches - ON when pressed over terminal 3	
6000	ON - OFF	
6001	ON - OFF (momentary ON)	
6002	ON - OFF (momentary OFF)	
6003	ON - OFF Lit	
6008	ON - OFF Lit (Unswitched neutral)	
6009	ON - OFF (momentary ON) Lit (Unswitched neutral)	
6010	ON - ON	
6011	ON - ON (momentary 1 side)	
6030	Indicator	

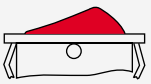
For twin switches and double pole circuits see pages 24 & 25

ROCKER

A Softline
Matt

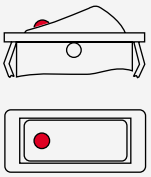


A Softline
Matt

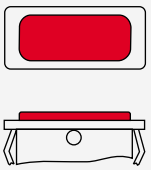


Lit

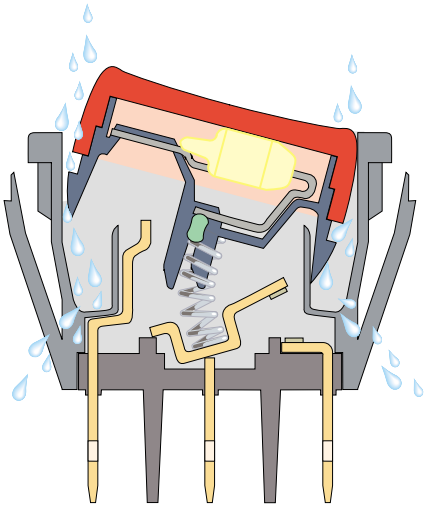
P Lit window
Matt



A Lens
Matt (6030 indicator only)



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 ---

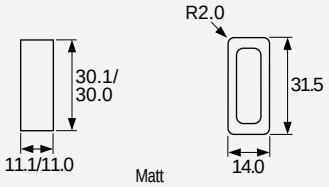
C6003PL ---

C6030AL ---

BODY

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

L



OPTIONS

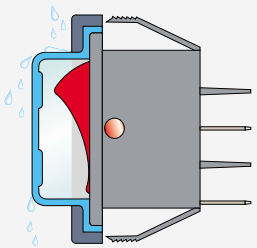
Finish Matt is standard

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.

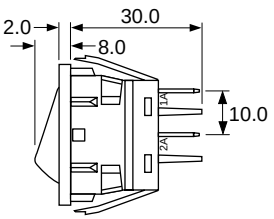


Panel sealing washer W46 is available but reduces panel thickness by a further 0.8mm. Covers are not suitable for momentary types.

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

In house test 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

In house test 20A 28Vdc

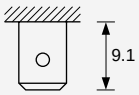
3mm contact gap except if marked µ. Technical data on pages 4 & 5 (switches), 66 (indicators)

C 1300 A L ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

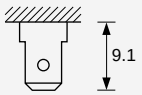
TERMINAL

C



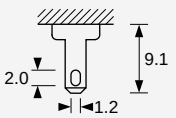
6.3 x 0.8

H



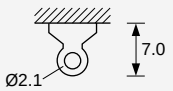
4.8 x 0.8*

K



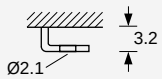
2.8 x 0.8*

T



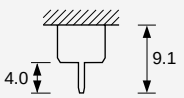
Solder

U



Right angle "T" solder terminal

X

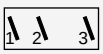


PCB 0.8Sq*

*N/A for 1300 series

FUNCTION

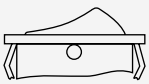
Approvals & ratings vary with function
On Off Switches - ON when pressed over terminal 1



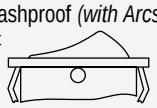
Standard	Hi Inrush	
1500 ♦	**1300** ♦ Approvals apply to C & T terminals only	ON - OFF
1501 HP rating N/A		ON - OFF (momentary ON)
1502 HP rating N/A		ON - OFF (momentary OFF)
1510 ♦ µ HP rating N/A		ON - ON
1511 µ HP rating N/A		ON - ON (momentary 1 side)
1520 ♦ µ 125V & 250V 1/2 HP H terminal rated T100 only		ON - OFF - ON
1521 µ HP rating N/A H terminal rated T100 only		ON - OFF - ON (momentary 1 side)
1522 µ HP rating N/A H terminal rated T100 only		ON - OFF - ON (momentary 2 sides)
0430 X terminal N/A		Indicator Technical data on page 66

ROCKER

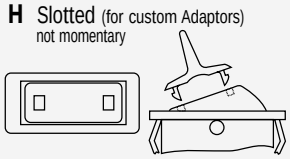
A Softline Matt



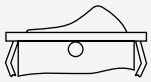
B Splashproof *(with Arcshield)* Matt



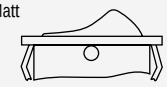
H Slotted (for custom Adaptors) not momentary



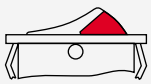
V Curved Matt or gloss



W Splashproof *(with Arcshield)* Matt

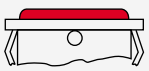


X Two colour Matt
ON - OFF only (not momentary)

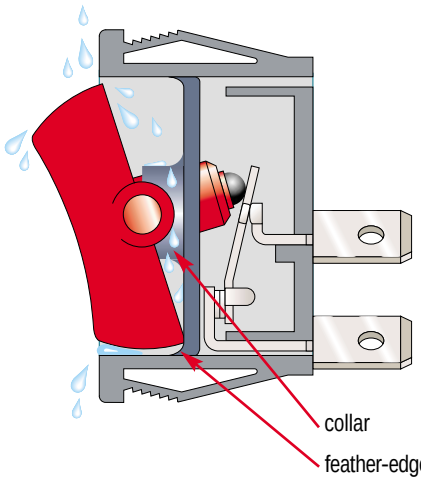


F Flat lens Gloss (0430 only)

A Softline lens Matt (0430 only)
as F but with raised profile



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.


C1500AR ---
T1500AR ---


C1500AL ---
T1500AL ---


C1500XL ---
T1500XL ---


C1510AL ---
T1510AL ---

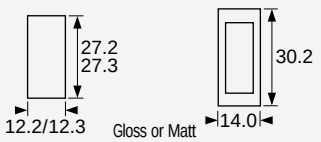

C1520AL ---
T1520AL ---


C0430AL ---
T0430AL ---

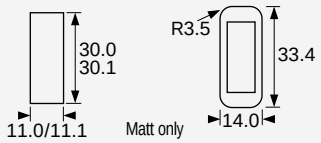
BODY

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

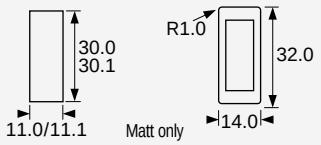
A



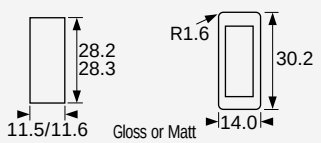
B



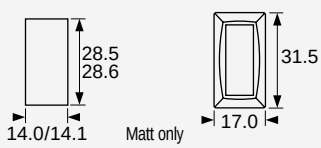
L



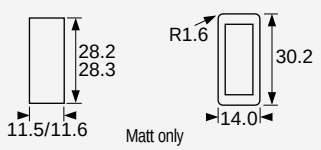
Q



R



T



OPTIONS

Finish Matt is standard

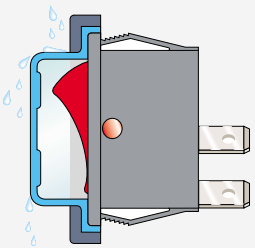
Colour Call factory for custom colours.
A full range is available for large orders

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.

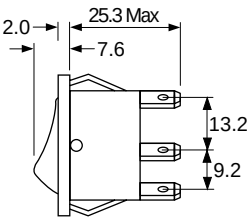


Panel sealing washer W46 is available for the same body sizes but reduces panel thickness by a further 0.8mm
Covers are not suitable for momentary types.

Arcshield
Hides switching arc

For all options call the factory

DIMENSIONS (mm)



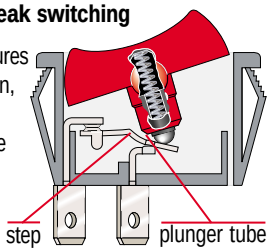
Panel thickness

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)

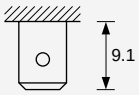
For Twin units repeat the order details for both the right and left sides

C 5503 A L ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

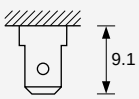
TERMINAL

C



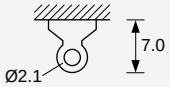
6.3 x 0.8

H



4.8 x 0.8

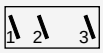
T



Solder

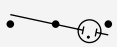
FUNCTION

Approvals & ratings vary with function
On Off Switches - ON when pressed over terminal 3



5500 ♦ µ — ON - OFF

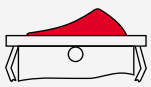
5503 ♦ µ preferred option — ON - OFF, Lit, Switched neutral



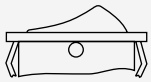
5508 µ for special applications — ON - OFF, Lit, Unswitched neutral

ROCKER

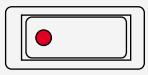
A Softline (Matt only)

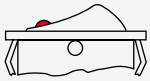


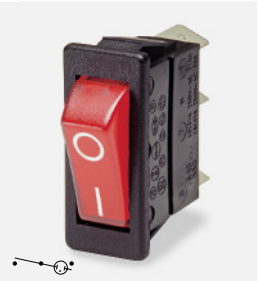
Lit



P Lit window (Matt only)



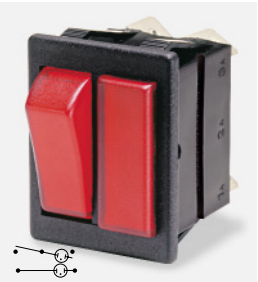




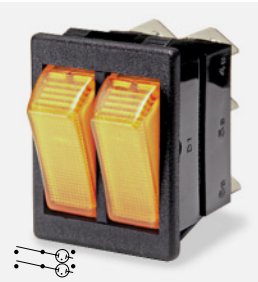
C5503AL ---

C5500AL ---

C5503PL ---



C5503A/C5430AL



C5503A/C5503AL

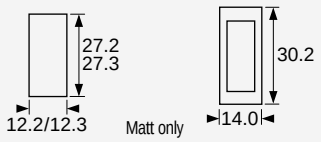
C5503P/C5503PL

BODY

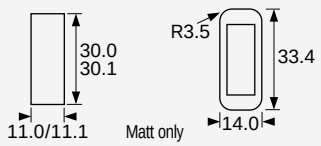
Panel cut-out ** Flange

Cut-outs must be punched in the direction of insertion

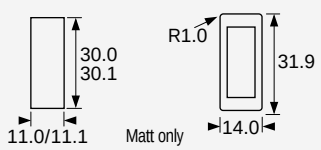
A



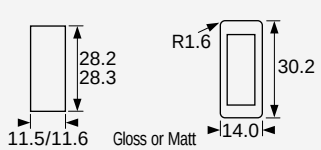
B



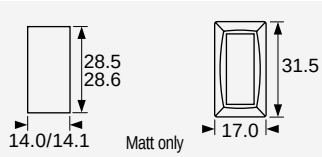
L



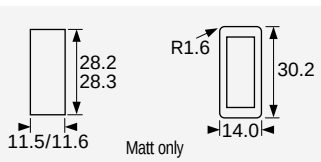
Q



R



T



OPTIONS

Finish Matt is standard

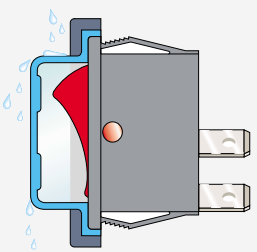
Colour Call factory for custom colours.
A full range is available for large orders

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

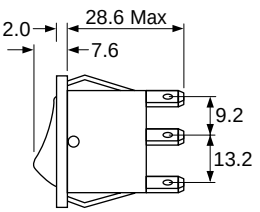
Protective cover (designed to IP65)
Snaps on to A, L, Q or T bodies
(add G after body in cat no).
This reduces panel thickness by 1mm.



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)



Panel thickness

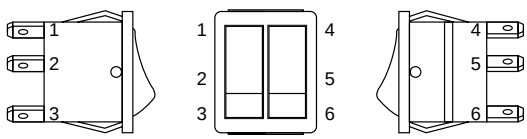
A,Q	0.75 to 3.3mm
L,B,T	0.75 to 2.5mm
R	0.75 to 3.0mm

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

Terminal spacing - Poles 10.8 between centres (twin units)

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)

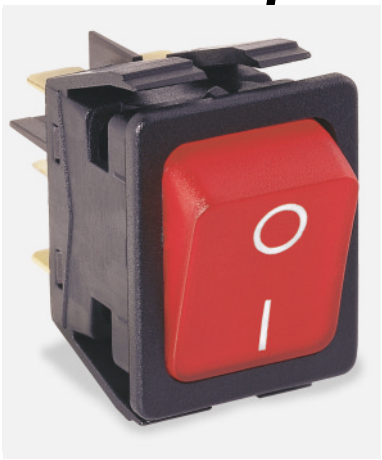
Examples of printing

EN3036

EN3064

EN706

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



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

UL CSA 20A+ 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

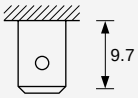
6050 Switches feature *"Arcshield"* to hide visible switching arc
3mm contact gap with Positive Break switching
Call factory for IP details on Twin units
Technical data on pages 4 & 5 (switches), 66 (indicators)
Patent app.

C 6053 A L ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

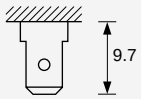
TERMINAL

C



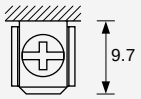
6.3 x 0.8

H



4.8 x 0.8

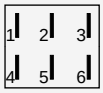
S



Screw & Clamp
N/A for assemblies
with 3 terminals in either pole

FUNCTION

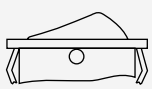
Approvals & ratings vary with function
On Off Switches - ON when pressed over terminals 3 & 6



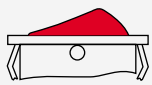
6050	ON - OFF	**6060**	ON - ON
6051	ON - OFF (momentary ON)	**6061**	ON - ON (momentary 1 side)
6052	ON - OFF (momentary OFF)	**6062**	2 Circuit ON - ON In house tests only
6053	ON - OFF Lit	**6066**	ON - ON (Single pole) (isolated light)
6054	ON - OFF (momentary ON) Lit	**6067**	ON - ON Lit
6055	ON - OFF (Single pole) (momentary ON) Lit	**6068**	ON - ON 1pole ON - OFF Lit 1pole
6056	ON - OFF (Single pole) Isolated light	**6090**	ON - OFF 1pole ON - OFF Lit 1pole
6057	ON - OFF Isolated light	**6091**	ON - OFF (momentary ON) Lit
6058	ON - OFF (Single pole) Lit	**6092**	ON - OFF 1 pole ON - ON 1 pole Lit
6059	ON - OFF (momentary ON Isolated light)		Circuits are Double Pole unless described otherwise

ROCKER

A Softline
Matt

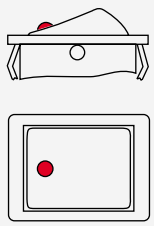


A Softline
Matt



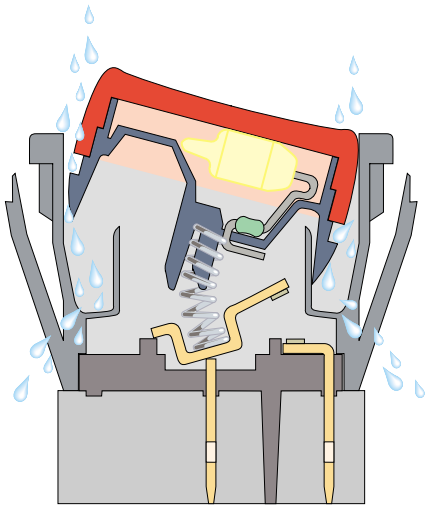
Lit

P Lit Window
Matt

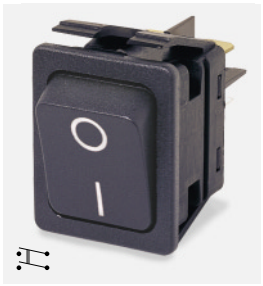


Lit Window

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

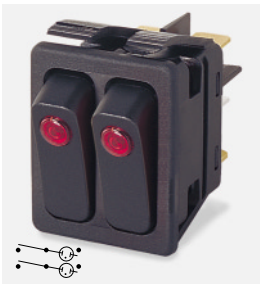


C6050AL ---

C6053AL ---

C6053PL ---

C6000A/C6000AL



C6003P/C6003PL

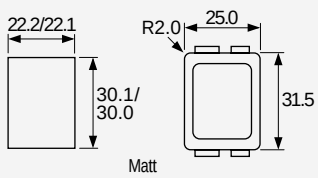
C6003P/C6030AL

NEW

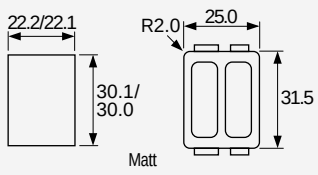
BODY

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

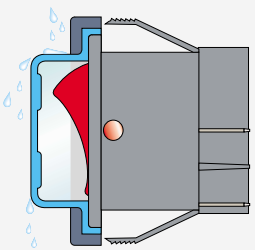
Finish Matt is standard

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.

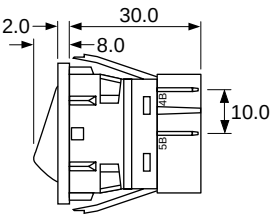
IP Ratings Call the factory for details

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

In house test 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

In house test 20A 28Vdc

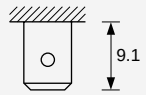
3mm contact gap except if marked µ. Technical data on pages 4 & 5 (switches), 66 (indicators)

C 1553 A L ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

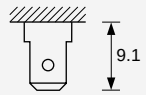
TERMINAL

C



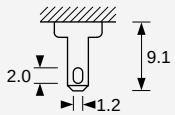
6.3 x 0.8

H



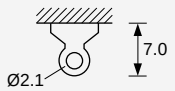
4.8 x 0.8*

K



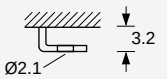
2.8 x 0.8*

T



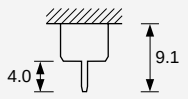
Solder

U



Right angle T Solder (Not DP)

X

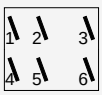


PCB 0.8Sq*

*Contact factory for details on 1350 series

FUNCTION

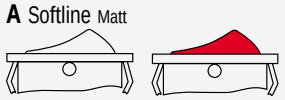
Approvals & ratings vary with function
On Off Switches - ON when pressed over terminal 1



Standard 1550 ♦	Hi Inrush 1350 ♦		
		ON - OFF	
1551 HP rating N/A		ON - OFF (momentary ON)	
1552 HP rating N/A		ON - OFF (momentary OFF)	
1553 ♦ Not W, X or B rocker	**1353** ♦ Not W, X or B rocker	ON - OFF Lit	
1560 ♦ µ		ON - ON	
1561 µ HP rating N/A		ON - ON (momentary 1 side)	
1562 µ In house tests only		2 Circuit ON - ON	
1570 ♦ µ 125V & 250V 1/2 HP H terminal rated T100 only		ON - OFF - ON	
1571 µ HP rating N/A H terminal rated T100 only		ON - OFF - ON (momentary 1 side)	
1572 µ HP rating N/A H terminal rated T100 only		ON - OFF - ON (momentary 2 sides)	
1484 µ In-house tested to 10(3)A 250Vac		3 position selective OFF - A - A+B	
1487 µ In-house tested to 10(3)A 250Vac		3 position selective A - B - C (link not supplied)	
0480 X terminal N/A		Indicator Technical data on page 66	

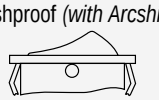
ROCKER

A Softline Matt

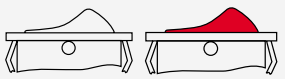


Lit (not momentary)

B Splashproof *(with Arcshield)*

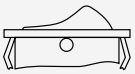


V Curved

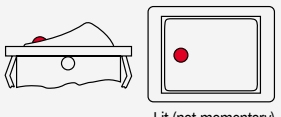


Matt or gloss — Gloss only Lit (not momentary)

W Splashproof *(with Arcshield)*



P Lit window Matt



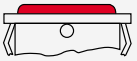
Lit (not momentary)

X Two colour Matt

(On Off only - not momentary)

F Flat lens Gloss (0480 only)

A Softline lens Matt (0480 only) as F but with raised profile

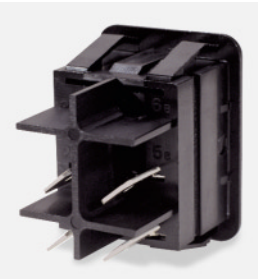


C1350AL ---

C1550XL ---

C1553PL ---

C0480AL ---



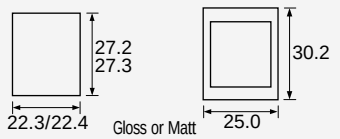
Optional snap-in M441 barrier

C1553AA with M616 guard
Cut-out 22.0/22.1 x 29.4/29.5
Guard accepts "A" body only

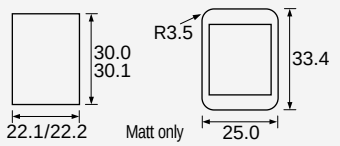
BODY

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

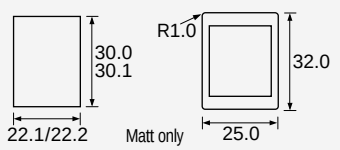
A



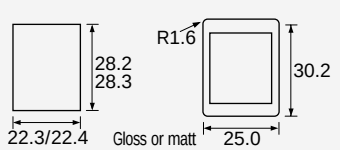
B



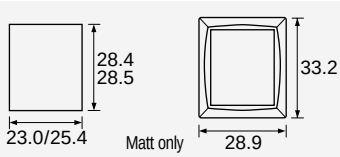
L



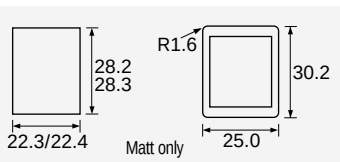
Q



R



T



OPTIONS

Finish Matt is standard

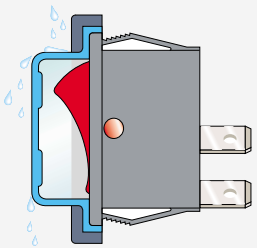
Colour Call factory for custom colours.
A full range is available for large orders

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.

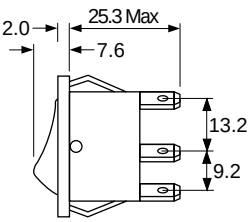


Panel sealing washer W42 is available for the above body sizes but reduces panel thickness by a further 0.8mm.
Covers are not suitable for momentary types.

Arcshield
Hides switching arc

For all options call the factory

DIMENSIONS (mm)



Terminal spacing - Poles 10.2 between centres

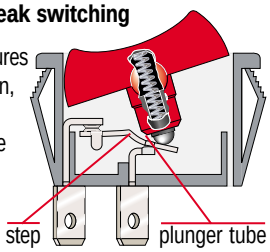
Panel thickness

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

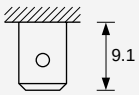
For twin units repeat the order details for both the left and right sides

C 1500 A / C 1510 A L ---

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

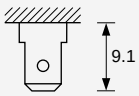
TERMINAL

C



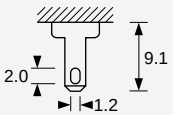
6.3 x 0.8

H



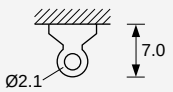
4.8 x 0.8

K



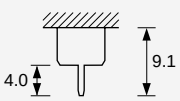
2.8 x 0.8

T



Solder

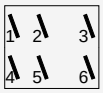
X

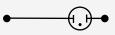


PCB 0.8Sq

FUNCTION

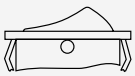
Approvals & ratings vary with function
On Off Switches - ON when pressed over terminal 1 or 4



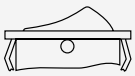
1500	ON - OFF	
1510 µ HP rating N/A	ON - ON	
1520 µ 125V & 250V 1/2 HP, 125V H terminal rated T100 only	ON - OFF - ON	
0430 X terminal N/A	Indicator Technical data on page 66	

ROCKER

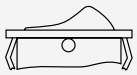
A Softline (Matt)



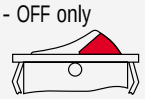
B Softline splashproof (Matt)



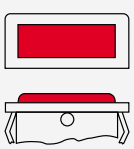
W Curved splashproof (Matt)



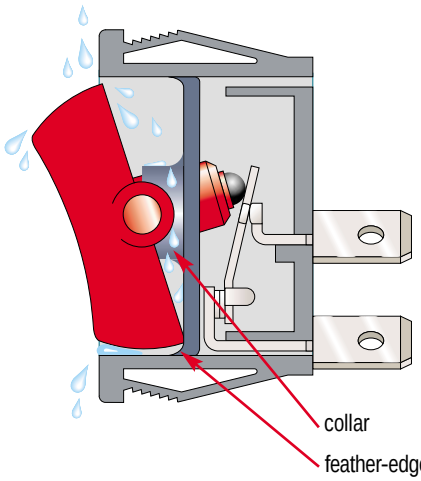
X Two colour (Matt) (not momentary)
ON - OFF only



A Softline lens (Matt) (Indicator)



Enhanced Splashproofing



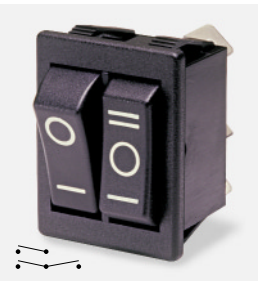
1500 W and B splashproof options
Feather edge seals and a close fitting collar protect current carrying parts from moisture.
B option has Hytrel collar/seals for enhanced protection.

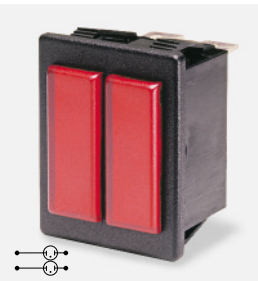

C1500A/C1500AL


C1500A/C0430AL


C1500X/C1500XL


C1520A/C1510AL

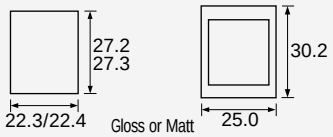

C1500A/C1520AL


C0430A/C0430AL

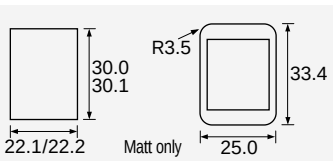
BODY

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

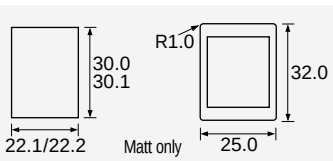
A



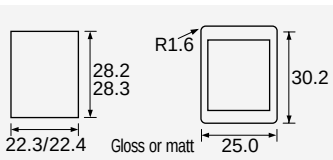
B



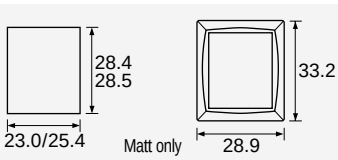
L



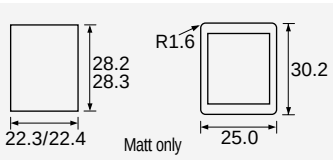
Q



R



T



OPTIONS

Finish Matt is standard

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

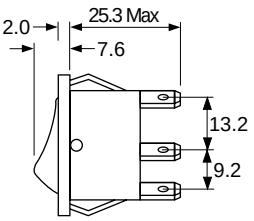
Legend printing Call factory for custom legends. State if a legend is to appear on the right or left hand unit (viewed from the front)

Lamp voltage Call factory for details

Arcshield
Hides switching arc

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

Call the factory for terminal spacing details

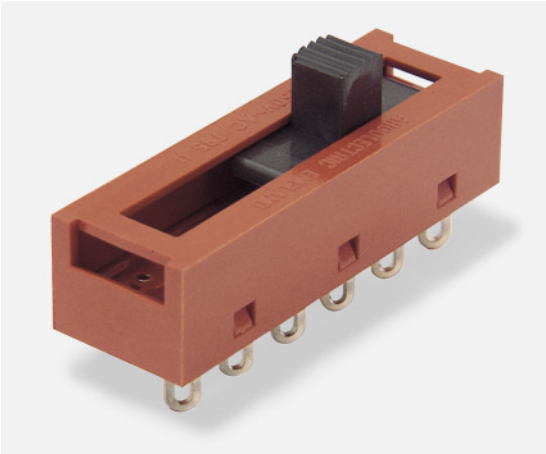
Twin unit terminal numbering
The first 6 digits of the catalogue number refer to the left hand unit when looking at the front. (This has terminal nos. 4, 5 & 6)

Examples of printing


EN602A


EN730

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

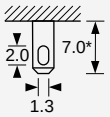
Please specify: Standard action (SP116) or Light action (SP118)
2000 series lubrication is inorganic and does not degrade plastics

Technical data on pages 4 & 5

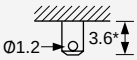
T 2 2 20 5 C ---

TERMINAL SERIES POSITIONS CIRCUIT SLIDER BODY PRINT, COLOUR, ETC

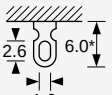
TERMINAL

K


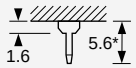
2.8 x 0.8

R


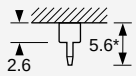
2.8 x 0.8

T


Solder

X


PCB 0.8 Sq.

Y


PCB 0.8 Sq.
For mounting stability switches have extra "support" terminals

* Nominal - Dimension varies with body type. For exact figure call factory

SERIES

2

POS'N

2 ♦ Switching positions

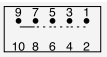
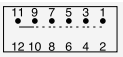
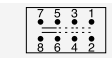
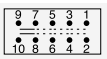
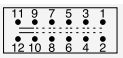
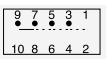
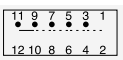
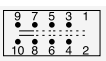
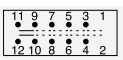
3 ♦ Switching positions

4 ♦ Switching positions

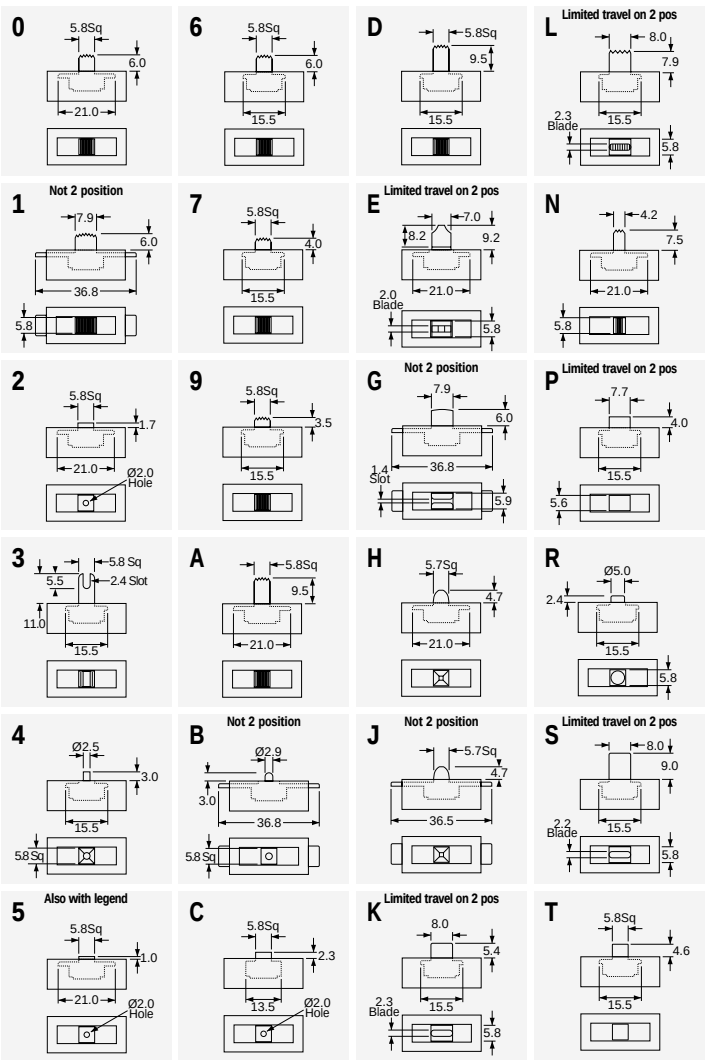
5 ♦ Switching positions

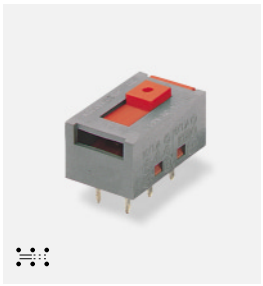
CIRCUIT

Viewed from back

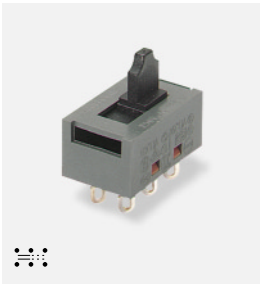
	2 ♦	3 ♦	4 ♦	5 ♦
10				
20				
30				
40				

SLIDER

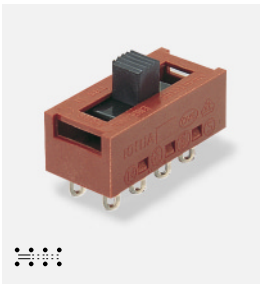




X22205C ---



T2220EC ---



T23206A ---

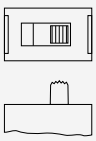
T24306A ---

T25302A ---

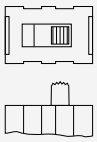
T25100A ---

BODY

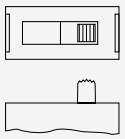
C 2 positions



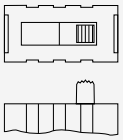
H 2 positions



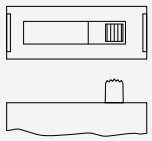
A 3 positions



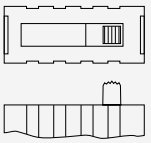
H 3 positions



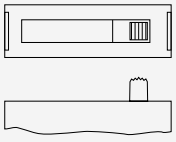
A 4 positions



H 4 positions



A 5 positions

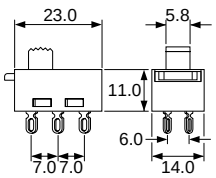


OPTIONS

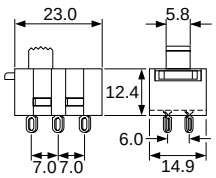
Colour
For custom slider colours call the factory.
A full range is available for large orders

DIMENSIONS (mm)

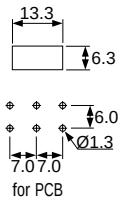
2 Position C body



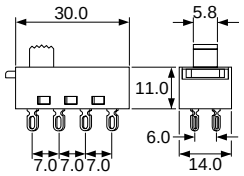
2 Position H body



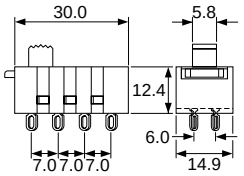
Cut-out / PCB Matrix

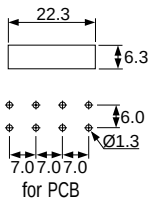


3 Position A body

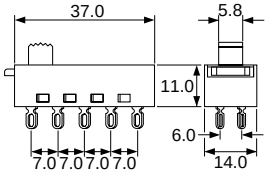


3 Position H body

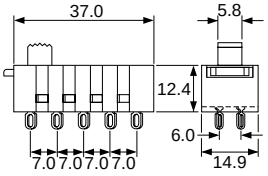


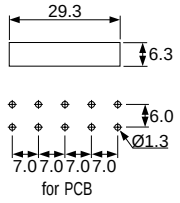


4 Position A body

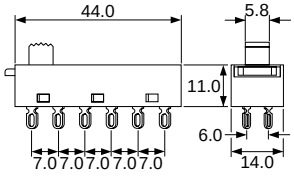


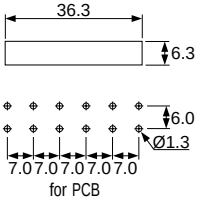
4 Position H body



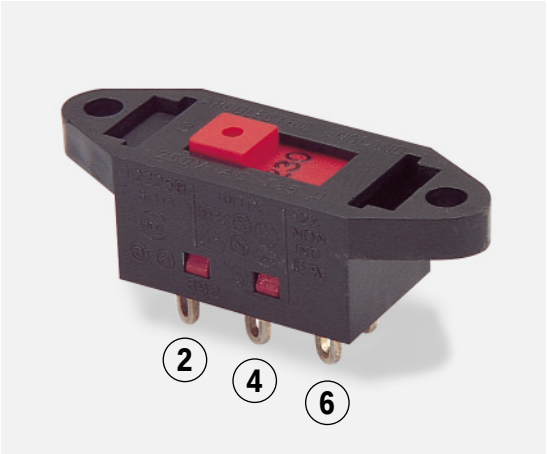


5 Position A body





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



115/230 is preferred legend

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

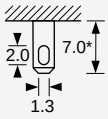
Technical data on pages 4 & 5

T 2 2 20 5 B ---

TERMINAL SERIES POSITIONS CIRCUIT SLIDER BODY PRINT, COLOUR, ETC

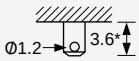
TERMINAL

K



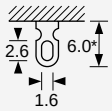
2.8 x 0.8

R



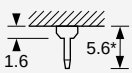
2.8 x 0.8

T



Solder

X



PCB 0.8 Sq.

For mounting stability switches have extra "support" terminals

* Nominal - Dimension varies with body type. For exact figure call factory

SERIES

2

POS'N

2 Switching positions

3 Switching positions

CIRCUIT

Viewed from back

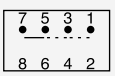
10

20

30

40

10



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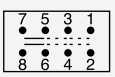

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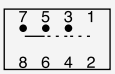

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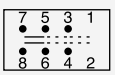
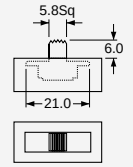
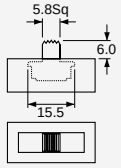


SLIDER

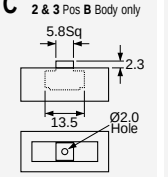
0 2 Pos B Body only



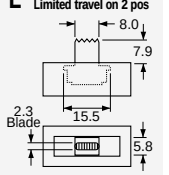
6 2 & 3 Pos B Body only



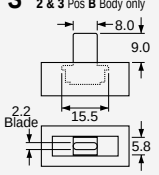
C E Body & 2 & 3 Pos B Body only



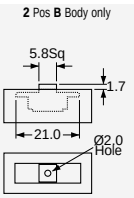
L 2 & 3 Pos B Body only Limited travel on 2 pos



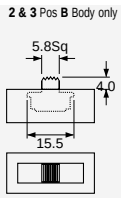
S Limited travel on 2 pos 2 & 3 Pos B Body only



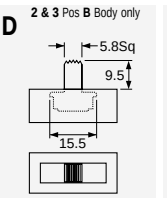
2 2 Pos B Body only



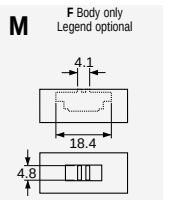
7 2 & 3 Pos B Body only



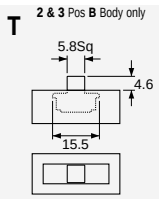
D 2 & 3 Pos B Body only



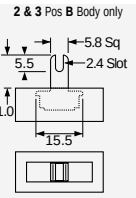
M F Body only Legend optional



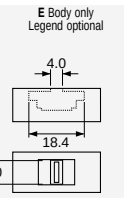
T 2 & 3 Pos B Body only



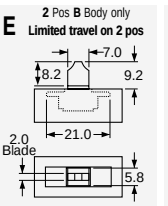
3 2 & 3 Pos B Body only



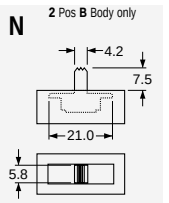
8 E Body only Legend optional



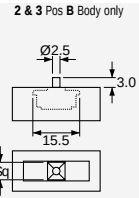
E 2 Pos B Body only Limited travel on 2 pos



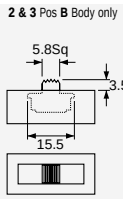
N 2 Pos B Body only



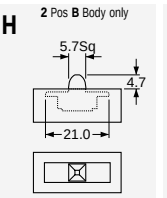
4 2 & 3 Pos B Body only



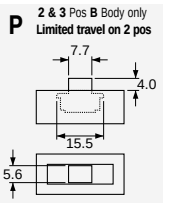
9 2 & 3 Pos B Body only



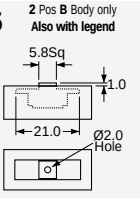
H 2 Pos B Body only



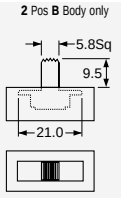
P 2 & 3 Pos B Body only Limited travel on 2 pos



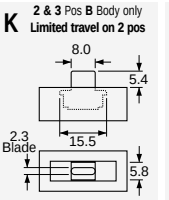
5 2 Pos B Body only Also with legend



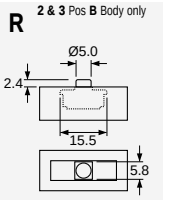
A 2 Pos B Body only



K 2 & 3 Pos B Body only Limited travel on 2 pos



R 2 & 3 Pos B Body only



T22208E ---

T22308E ---

T2230MF ---

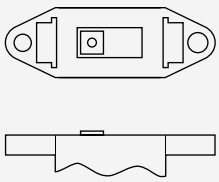
T22205B ---

T22305B ---

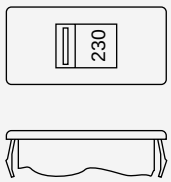
T23204B ---

BODY

B With fixing holes

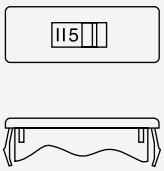


E Snap-in



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

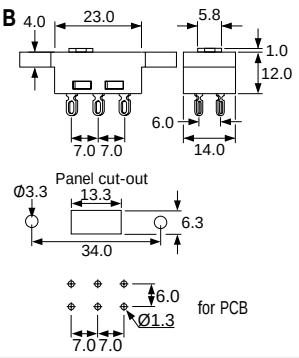
Legend printing
A wide range is available

For all options call the factory

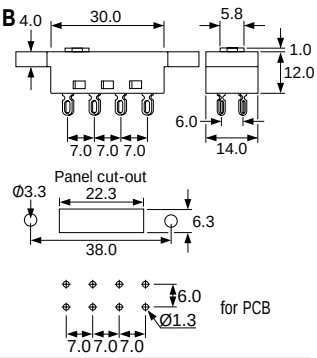
DIMENSIONS (mm)

Cut-out / PCB Matrix

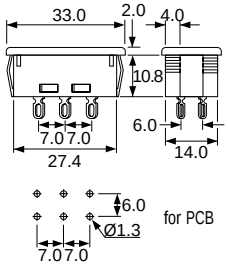
2 Pos B

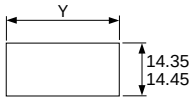


3 Pos B



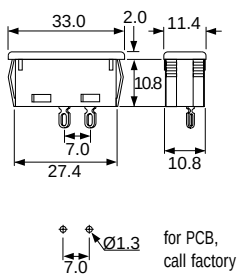
2 Pos E

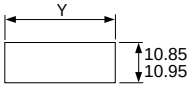




Panel thickness	Dim. Y
0.8-1.2	29.75/29.85
1.63	30.15/30.25
2.0	30.35/30.45
2.5	30.55/30.65

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

8300 Push Button Switches *16A 250Vac*

NEW

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)

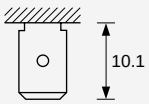
12A 250Vac DP, 13A 250Vac SP
250Vac 1hp, 125Vac 1/2hp
UL 85°C, file E45221, CSA file LR10990

3mm contact gap
Technical data on pages 4 & 5

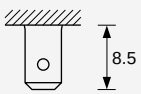
H 8353 J E ---

TERMINAL FUNCTION ACTUATOR BODY PRINT, COLOUR, ETC

TERMINAL

C


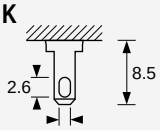
6.3 x 0.8

H


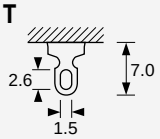
4.8 x 0.8

A

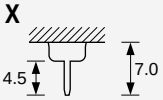

As "H" but right angle 4.8 x 0.8

K


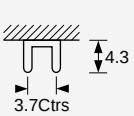
2.8 x 0.8

T


Solder

X


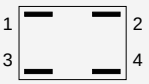
PCB 0.8 Sq

V


Dual pin PCB
(Call factory for matrix dims)

FUNCTION

Approvals & ratings vary with function
Single pole switches use terminals 1 & 2 (& 3)



8300 ♦ ON - OFF Single pole

8301 ♦ ON - OFF (momentary ON) Single pole

8303 ♦ ON - OFF with light Single pole

8304 ♦ ON - OFF (momentary ON) with light Single pole

8350 ♦ ON - OFF Double pole

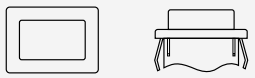
8351 ♦ ON - OFF (momentary ON) Double pole

8353 ♦ ON - OFF with light Double pole

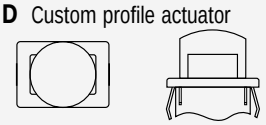
8354 ♦ ON - OFF (momentary ON) with light Double pole

ACTUATOR

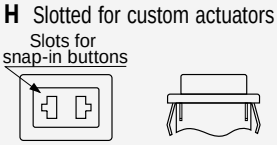
A Standard actuator



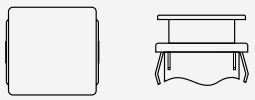
D Custom profile actuator



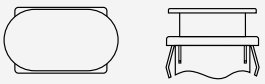
H Slotted for custom actuators



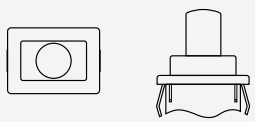
C Square lens



E Radiused actuator



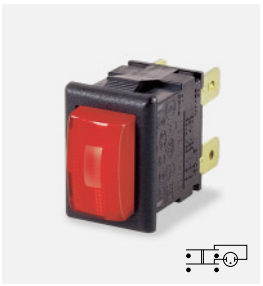
F Small round actuator



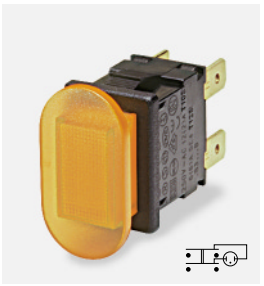
J Smooth curved actuator

All actuators except D & H available lit

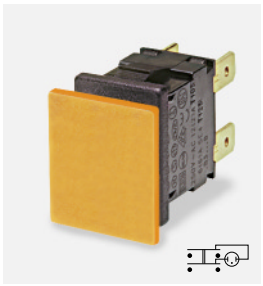
C8350AB ---
T8350AB ---



H8353JE ---
T8353JE ---

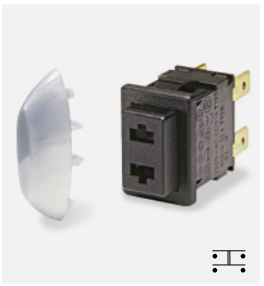


H8353EB ---
T8353EB ---



H8353CB ---
T8353CB ---

H8350DB ---
T8350DB ---



H8350HB ---
Example of actuator

BODY

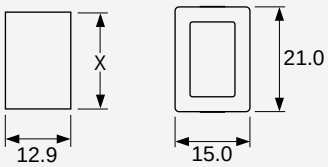
Panel cut-out Flange
Cut-outs must be punched in the direction of insertion

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

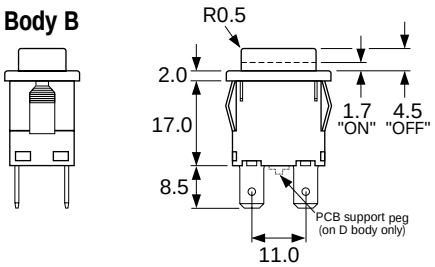
Special buttons
Some of the many options are shown
Call the factory for the full range

L167 Protective cover
(designed to IP65)

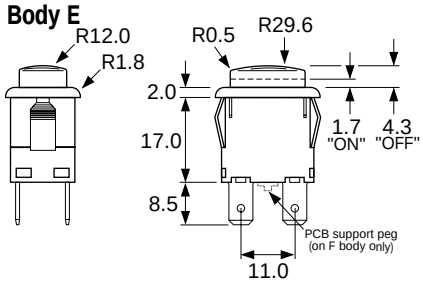
Snaps on to switch bodies fitted with "A" or "J" style actuators but reduces panel thickness by 0.8mm

DIMENSIONS (mm)

Actuator A
Body B



Actuator J
Body E



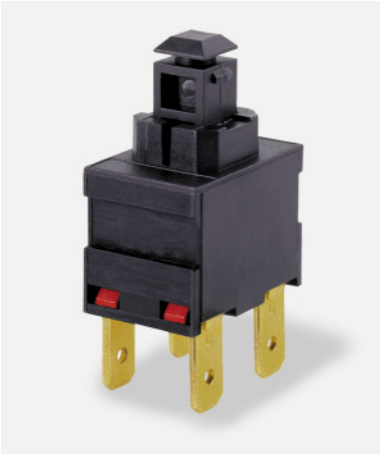
Spacing between centre of terminals 1 & 3 or 2 & 4 is 10.0mm

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)

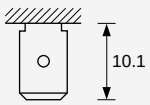
12A 250Vac
250Vac 1hp, 125Vac 1/2hp
UL 85˚C, file E45221, CSA file LR10990

3mm contact gap
Technical data on pages 4 & 5

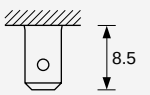
H 8200 A A ---

TERMINAL FUNCTION ACTUATOR BODY OPTIONS

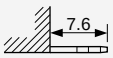
TERMINAL

C


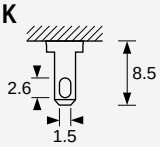
6.3 x 0.8

H


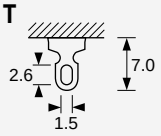
4.8 x 0.8

A


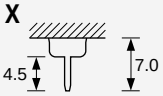
As H, 4.8 x 0.8
Right angle

K


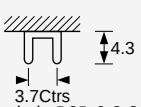
2.8 x 0.8

T


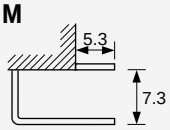
Solder

X


PCB 0.8 Sq

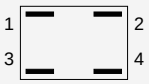
V


Dual pin PCB 0.8 Sq
(Call factory for
matrix dims)

M


As V, PCB
but Right angle

FUNCTION



8200 ON - OFF Single pole

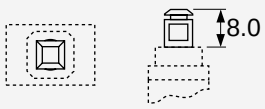
8201 ON - OFF (momentary ON) Single pole

8250 ON - OFF Double pole

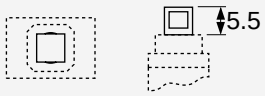
8251 ON - OFF (momentary ON) Double pole

ACTUATOR

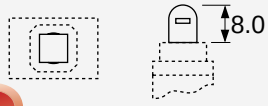
A Standard actuator for snap-on custom adaptors



B Flat top actuator



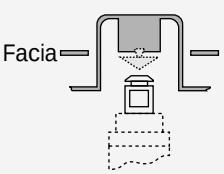
C Curved top actuator



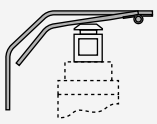
NEW

Examples of possible actuation methods

Using a Snap on adaptor

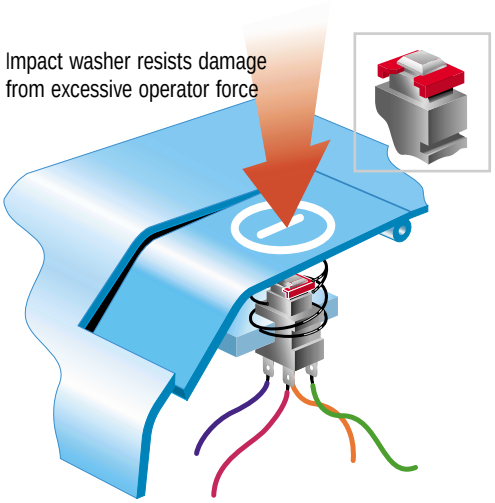


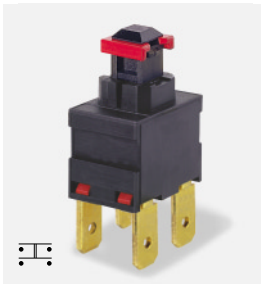
Using a Hinged Actuator



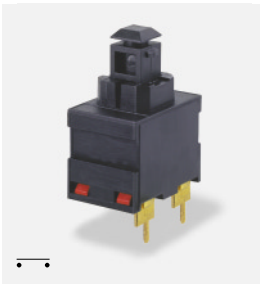
Alternative Actuator

Impact washer resists damage from excessive operator force

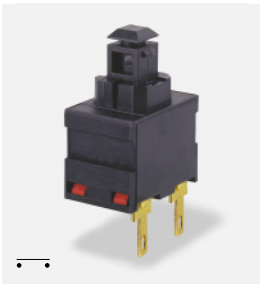




C8250AA ---
with impact washer M1226



X8201AA ---



K8200AA ---

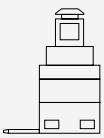
A8200AA ---

M8200AC ---

Example of M8200AC

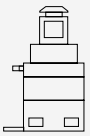
BODY

A
Standard body



See dimensioned drawings for details

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



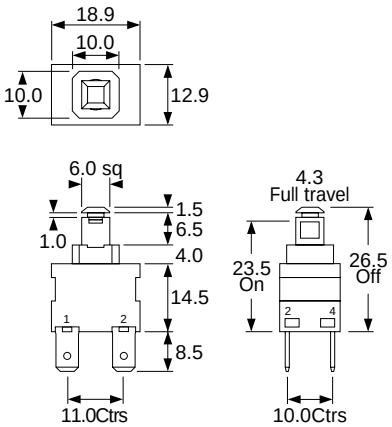
See dimensioned drawings for details

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

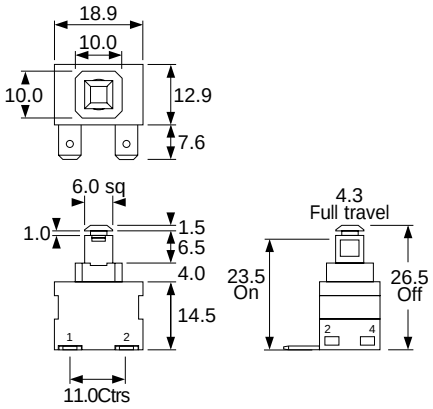
See dimensioned drawings 'A' for details

DIMENSIONS (mm)

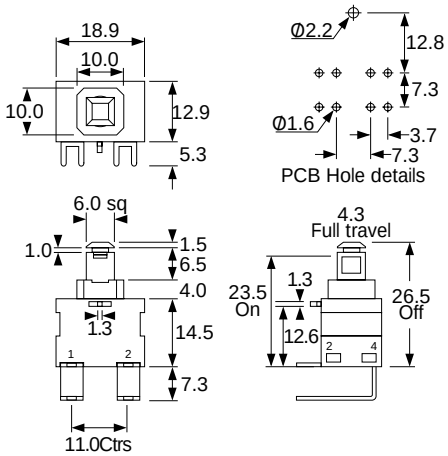
'A' body with 'H' 4.8 terminals



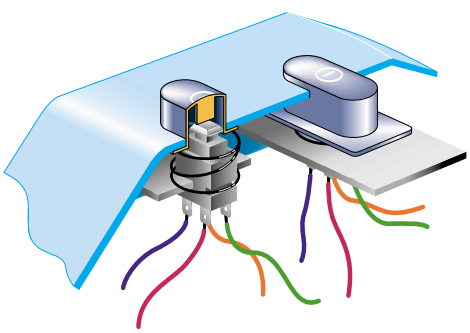
'A' body with 'A' right angle 4.8 terminals



'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

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

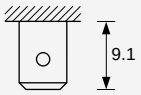
3mm contact gap
Technical data on pages 4 & 5 (switches), 66 (indicators)

C 7053 A F ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

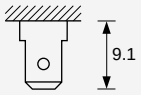
TERMINAL

C



6.3 x 0.8

H



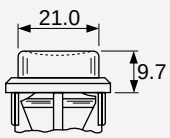
4.8 x 0.8

FUNCTION

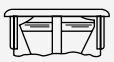
7000	2 1	Single pole ON - OFF
7001		Single pole ON - OFF (momentary ON)
7003	4 2 1	Single pole ON - OFF with light
7004		Single pole ON - OFF (momentary On) with light
7050	4 3 2 1	Double pole ON - OFF
7051		Double pole ON - OFF (momentary On)
7053	4 3 2 1	Double pole ON - OFF with light
7054		Double pole ON - OFF (momentary On) with light
7030	4 2	Indicator

ACTUATOR

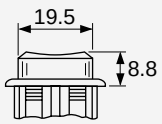
A Round actuator
shown in F body

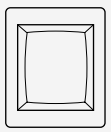


A Round actuator
shown in G body



S Rectangular actuator
Shown in "A" body
N/A for 7030

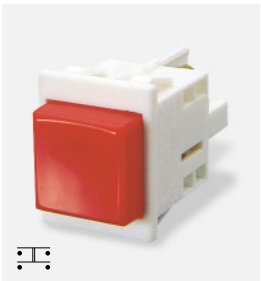




C7000AF ---

C7001AF ---

C7003AF ---



C7050SA ---

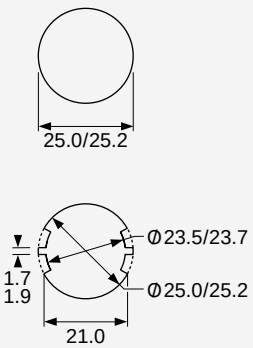
C7053AG ---

C7030AH ---

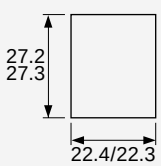
BODY

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

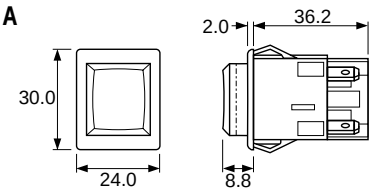
Protective housing (E)
(designed to IP65)
Covers are available for round body styles, call factory for details

DIMENSIONS (mm)

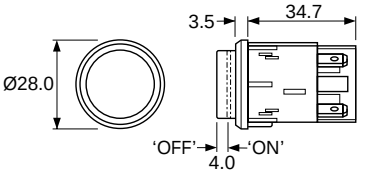
Panel thickness:

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

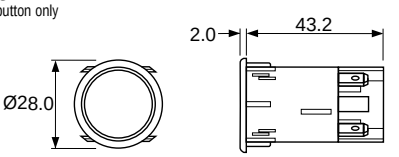
A



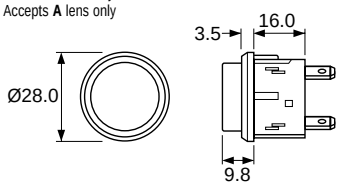
F



G
button only



H
7030 Indicator only
Accepts **A** lens only



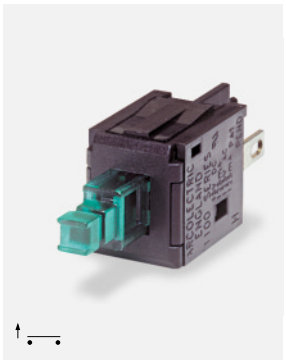
1100 Push Button Switches *0.125A 125Vac*

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 - - -



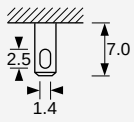
T1101AA - - -

T 1100 A A - - -

TERMINAL FUNCTION ACTUATOR BODY OPTIONS

TERMINAL

T



2.8 x 0.5

FUNCTION

1100

ON - OFF
(alternate)
Single pole

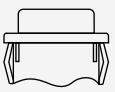
1101

ON - OFF
(momentary ON)
Single pole

ACTUATOR

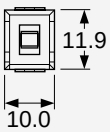
A
Actuator without button

B
Softline button

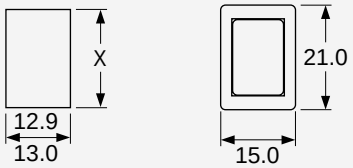


BODY

A
For purpose designed facias and sub-panels

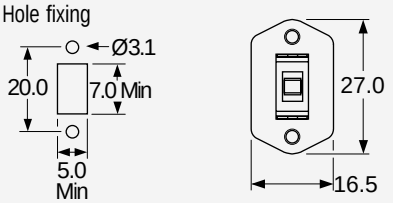


B
Snap-in fixing



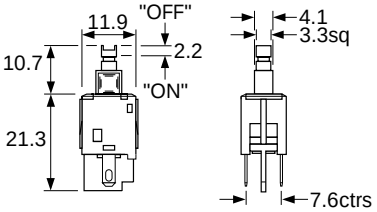
Panel thickness	Dimension X
0.75-1.24	19.1/19.2
1.25-1.99	19.3/19.4
2.00-3.00	19.7/19.8

C
2 Hole fixing

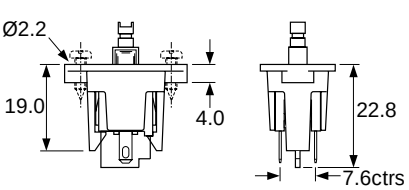


Dimensions (mm)

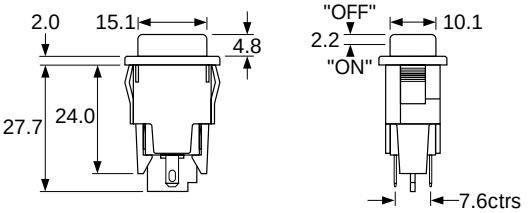
T1100AA (Enclosure mounting)



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---

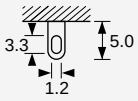
T0916VA ---

T 0916 S O - - -

TERMINAL FUNCTION ACTUATOR BODY COLOUR

TERMINAL

T



Solder

FUNCTION

0916

Black base

SP ON-OFF (momentary ON)

0917 50V only

Brown base

SP ON-ON (momentary 1 side)

0918

White base

SP ON-OFF (momentary OFF)

0919

Black base

SP ON-ON (momentary 1 side)

0920

White base

DP ON-OFF (momentary ON)

ACTUATOR

S

Small Actuator

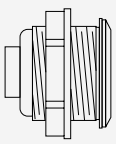
L

Large Actuator

V

Vandal Resistant IP66

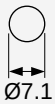
Flat top Stainless steel



BODY

O

for L and S Actuator



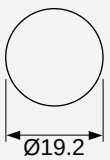
Panel Cut-out

Panel thickness
Both nuts - 2.5mm
No backnut - 4.0mm

A

for V Actuator (stainless steel)

Chamfer profile bezel



Panel Cut-out
Panel thickness - 8.0mm

OPTIONS

Finish

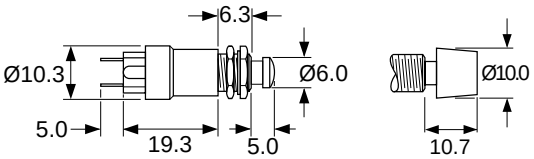
Gloss finish for L and S actuators

Colour

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

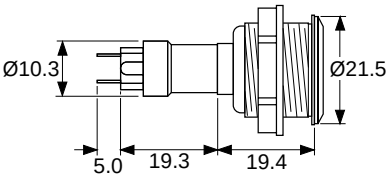
Dimensions (mm)

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 (34340350COLOOO)
µ contact gap
Full rating details and technical data on pages 50 & 51
Ratings are at full plunger travel

C0911KB ---

C0911VA ---

C0911RB ---

C0911PB ---

C0911EB ---

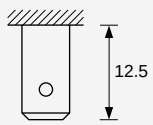
C0911BB ---

C 0911 K B - - -

TERMINAL FUNCTION ACTUATOR BODY COLOUR

TERMINAL

C



6.3 x 0.8

FUNCTION

0910

ON - ON
(alternate)

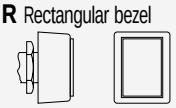
0910 is available with
K and N actuators only

0911

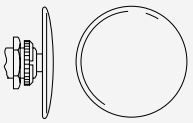
ON - ON
(momentary)

ACTUATOR

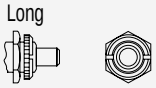
R Rectangular bezel



B Large Contact factory for details



E Long



P Short

K with satin chrome bezel

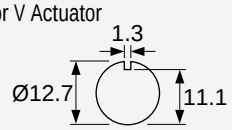
N with nylon bezel

V Vandal resistant (911only)

BODY

B

N/A for V Actuator

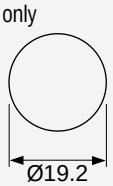


Panel Cut-out

Panel thickness
Both nuts 2.5mm
No backnut 4.0mm

A

Stainless steel chamfer profile bezel
for V actuator only



Panel Cut-out

Panel thickness
8.0mm

OPTIONS

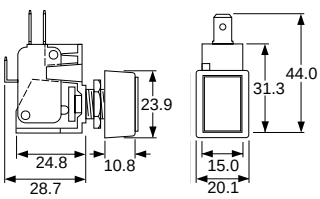
Colour
Call factory for
custom colours
A full range is available
for large orders

Cover M323
Available for "P" actuator
only

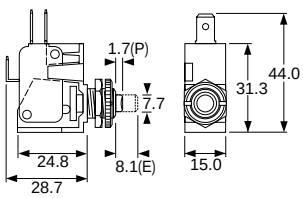
Covers have internal nylon nut

Dimensions (mm)

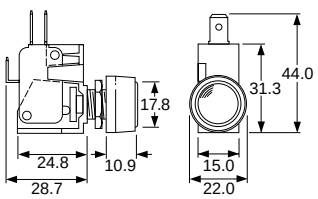
R



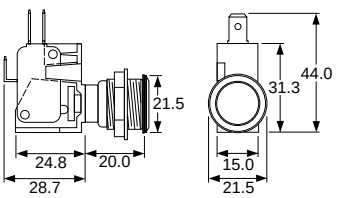
P & **E**



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 ---

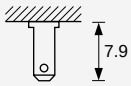
K1961VL ---

K 1911 V L

TERMINAL FUNCTION ACTUATOR BODY

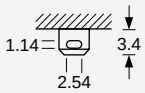
TERMINAL

K



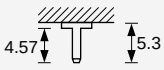
2.8 x 0.5

T



Solder

X



PCB

FUNCTION

1911

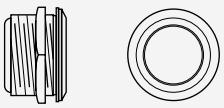
ON - ON (momentary 1 side) Single pole

1961

ON - ON (momentary 1 side) Double pole

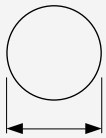
ACTUATOR

V
Flat top (stainless steel)



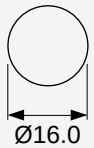
BODY

A
Stainless steel
Chamfer profile bezel



Panel thickness up to 4.0mm

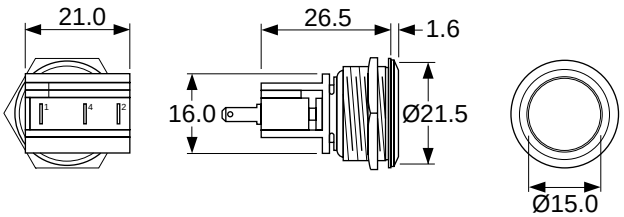
L
Stainless steel
Chamfer profile bezel



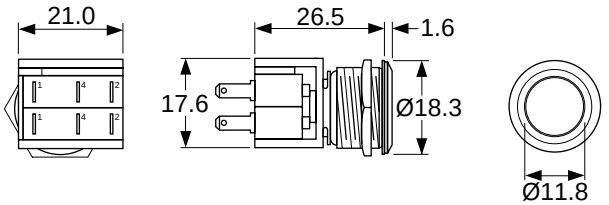
Panel thickness up to 4.0mm

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

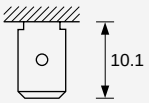
H8300RP ---

H 8300 R P

TERMINAL FUNCTION ACTUATOR BODY

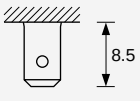
TERMINAL

C



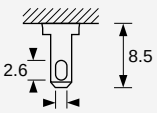
6.3 x 0.8

H



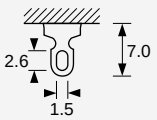
4.8 x 0.8

K



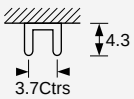
Solder

T



Solder

V



Dual pin PCB

X

0.8Sq PCB

FUNCTION

8300

ON - OFF (alternate) Single pole

8301

ON - OFF (momentary ON) Single pole

8350

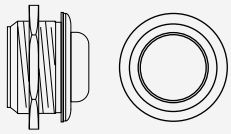
ON - OFF (alternate) Double pole

8351

ON - OFF (momentary ON) Double pole

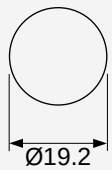
ACTUATOR

R
Raised top (stainless steel)



BODY

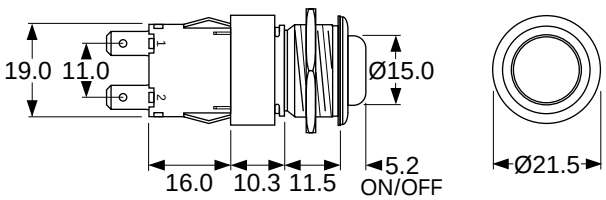
P
Stainless steel
Soft profile bezel



Panel thickness 0.75 - 3.0mm

For details of alternative panel cut-out and bezel diameters, call the factory

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 (34340350COLOOO)
µ contact gap
Full rating details and technical data on pages 50 & 51
Ratings are at full plunger travel

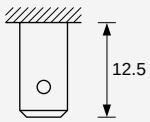
C0911VA ---

C 0911 V A

TERMINAL FUNCTION ACTUATOR BODY

TERMINAL

C



6.3 x 0.8

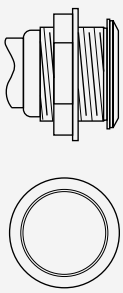
FUNCTION

0911

ON - ON
(momentary 1 side)

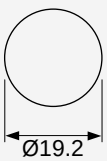
ACTUATOR

V
Flat top (stainless steel)



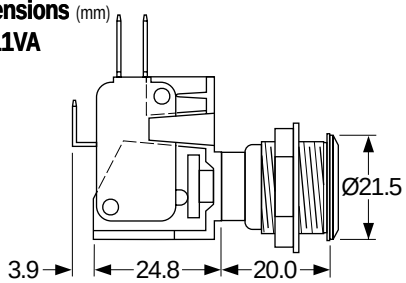
BODY

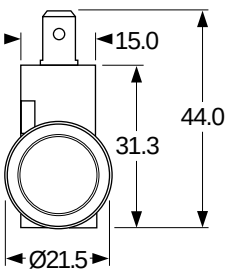
A
Stainless steel
Chamfer profile bezel



Panel thickness up to 8.0mm

Dimensions (mm)
C0911VA





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

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

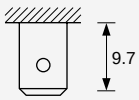
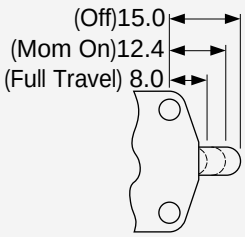
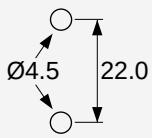
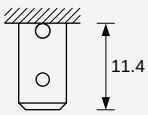
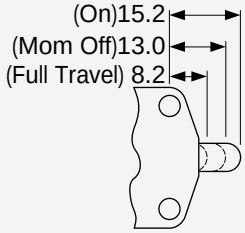
µ contact gap
UL94 V1 Button and body
Complies with UL Glow wire test - 850˚C Cat D

Additional technical data on pages 4 & 5

04102-001

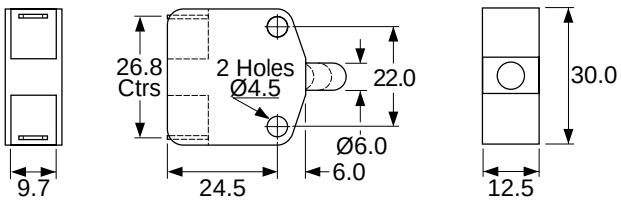
04102-001

TERMINAL FUNCTION ACTUATOR BODY

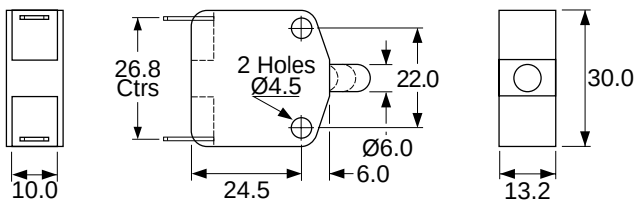
TERMINAL	FUNCTION	ACTUATOR	BODY
 6.3 x 0.8 Force when applying connectors ≤80N	**04102-001**  Single Pole ON-OFF (momentary ON)		2 Hole fixing  (shakeproof washers not to be used with fixings)
 6.3 x 0.8 Force when applying connectors ≤80N	**04102-001R**  Single Pole ON-OFF (momentary OFF)		

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
µ contact gap
Technical data on pages 4 & 5

C0936PC - - -

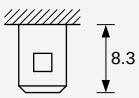
C0938MA - - -

C 0936 P A ---

TERMINAL FUNCTION ACTUATOR BODY OPTION

TERMINAL

C



6.3 x 0.8

FUNCTION

0936

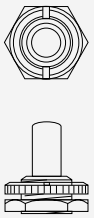
ON - OFF
(momentary ON)

0938

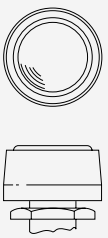
ON - OFF
(momentary OFF)

ACTUATOR

P
Small round push



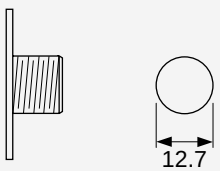
K satin chrome bezel
M moulded nylon bezel
both with large round push



Specify Satin chrome or nylon (black / white) bezel

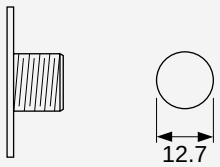
BODY

C
Nylon top plate and fixing neck



Back nut must be fitted

A
Metal top plate and fixing neck
For Low Voltage (up to 50V) only



Back nut must be fitted

OPTIONS

Push button finish
Gloss finish only

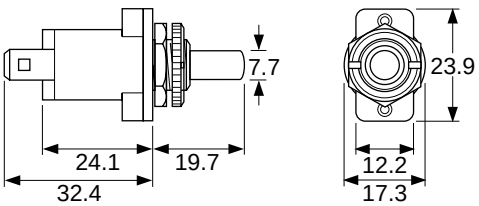
Push button colour
Red, black
for other colours call the factory

Cover M327
Available for “P” actuator

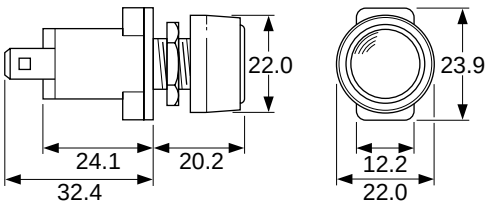
Covers have internal nylon nut

Dimensions (mm)

0936 / 0938 P



0936 / 0938 K / M



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

NEW

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

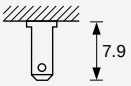
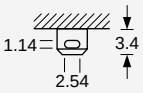
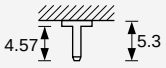
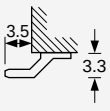
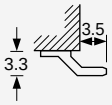
6A 250Vac T85 - *150g
2A 250Vac T85 - *60g
UL file no. E91973 * * Operating force

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

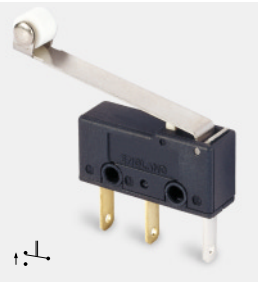
SERIES	TERMINAL	CONTACT GAP	OPERATING FORCE	FUNCTION
			gms	
29	**1**  2.8 x 0.5 **2**  Solder **3**  PCB **4**  LH PCB **5**  RH PCB Viewed from plunger end	**20** (0.5 mm)	**60**	 **CO** ON - (ON) (momentary 1 side)
			150	

293 20 150 CO L000

291 20 60 CO - - - -

294 20 150 CO 0000

292 20 150 CO R000



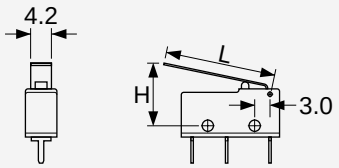
291 20 150 CO R001

292 20 150 CO 0000

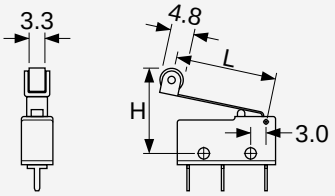
ACTUATOR

No lever
0000

Plain lever
L000
L001
L002

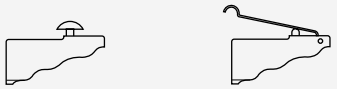


Roller lever
R000
R001
R002

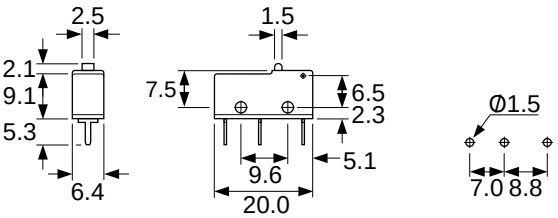


	L000	L001	L002	R000	R001	R002
Dim H	12.23	15.19	19.93	16.97	19.93	24.66
Dim L	17.5	30.0	50.0	15.91	28.41	48.41

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



DIMENSIONS (mm)



TECHNICAL DATA

Mechanical life	>5 million operations
Temperature rating	T85ºC
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

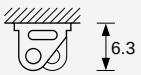
SERIES TERMINAL CONTACT GAP OPERATING FORCE FUNCTION ACTUATOR

SERIES

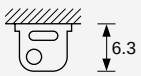
34
(See ratings above for 340 Series)

39
(See ratings above for 390 Series)

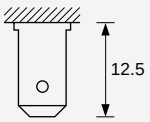
TERMINAL

2


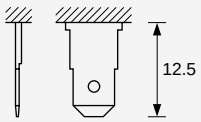
Solder
(34 Series)
Both end terminals shown

2


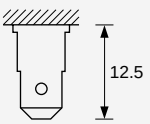
Solder
(39 Series)

3


6.3 x 0.8
(34 & 39 Series)

5


4.8 x 0.5
(34 Series)

6


4.8 x 0.8
(34 Series)

CONTACT GAP

40
(1.0 mm)

OPERATING FORCE

Operating force in gms

075
(34 Series only)

120
(34 & 39 Series)

350
(34 & 39 Series)

FUNCTION

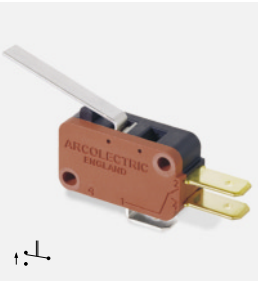

CO
ON - (ON)
(momentary 1 side)


NO
(ON) - OFF
(momentary On)

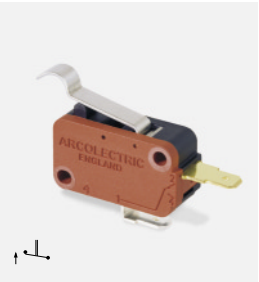

NC
ON - (OFF)
(momentary Off)

343 40 120 CO ZDS1

342 40 120 CO ZD01



343 40 075 CO - - - -



346 40 350 NC - - - -

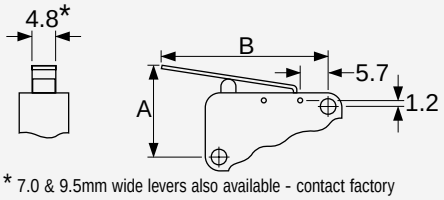
346 40 120 NO - - - -

343 40 120 CO L000

ACTUATOR

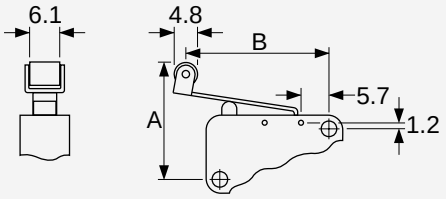
No lever
L000

Plain lever
ZD00
ZD01
ZD02



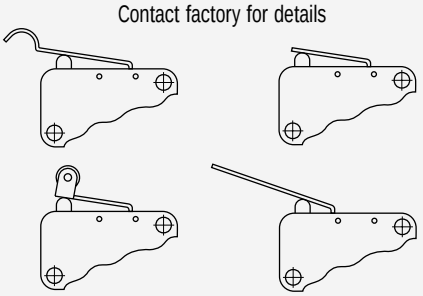
* 7.0 & 9.5mm wide levers also available - contact factory

Roller lever
ZDS0
ZDS1

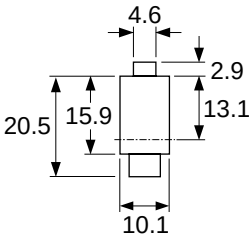


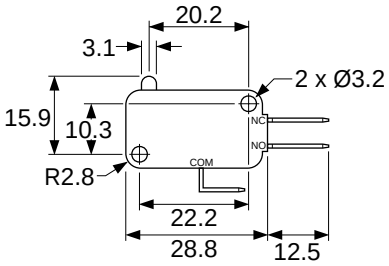
	ZD00	ZD01	ZD02	ZDS0	ZDS1
Dim A	17.0	18.6	25.8	22.2	23.9
Dim B	22.6	33.9	84.4	19.7	31.7

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	T85ºC
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 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

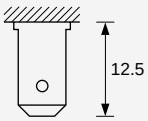
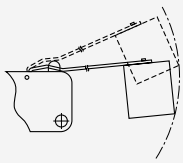
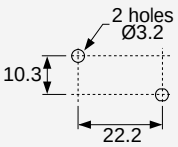
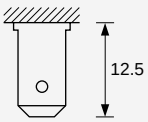
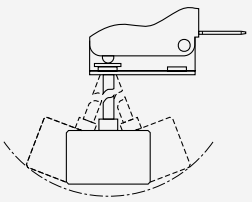
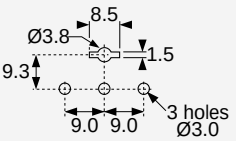
C0320BB
16(4)A 250Vac 1/2hp

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

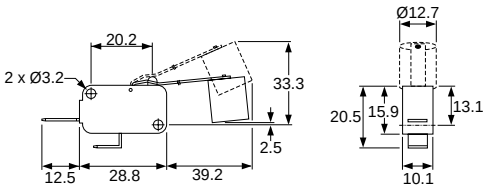
C0320AA - - -

TERMINAL FUNCTION ACTUATOR MOUNTING

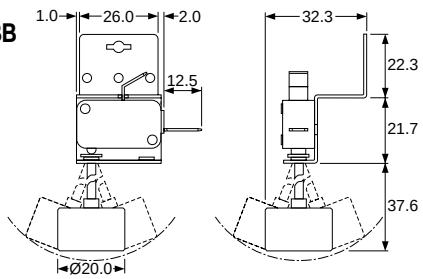
ORDER CODE	TERMINAL	FUNCTION	ACTUATOR	MOUNTING
C0320AA 	 6.3 x 0.8	 ON - OFF (momentary OFF)		
C0320BB NEW 	 6.3 x 0.8	 ON - OFF (momentary OFF)		

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

C0320AA



C0320BB

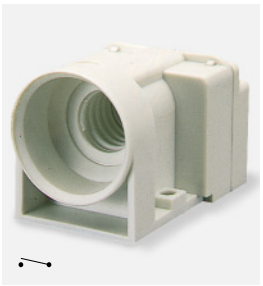


0305 Combined Switch / Lampholder for Freezers

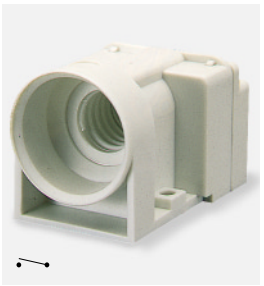
2A 250Vac 25 T 85

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

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



C0305RT - - -



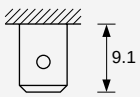
C0305LT - - -

C 0305 R T - - -

TERMINAL FUNCTION MOUNTING BODY COLOUR, ETC

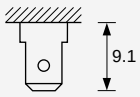
TERMINAL

C



6.3 x 0.8

H



4.8 x 0.8

FUNCTION

0305 (E14)

ON - OFF
Switch and Lampholder

0306 (E12)

ON - OFF
Switch and Lampholder

0307 (E14)

Lampholder only
(No Switch)

0308 (E12)

Lampholder only
(No Switch)

MOUNTING

L
For Left hinged lid
for 0305/0306 switches
not for 0307 lampholders

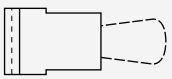
View from bulb end

R
For Right hinged lid
for 0307 lampholders
or 0305/0306 switches

View from bulb end

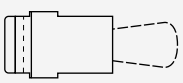
BODY

T
Body without flange
for 0305/0306 switches



Top view

S
Body with rear flange
for 0307 lampholders and
for 0305/0306 switches



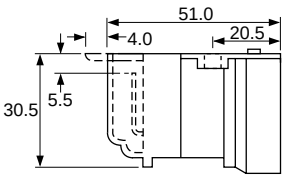
Top view

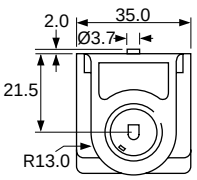
OPTIONS

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

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 ---

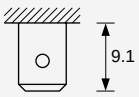
C0056RB ---

C 0055 R B - - -

TERMINAL FUNCTION ACTUATOR BODY COLOUR, ETC

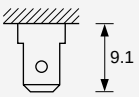
TERMINAL

C



6.3 x 0.8

H (0056 only)



4.8 x 0.8

FUNCTION

0055

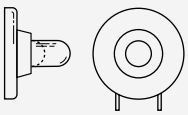
ON - OFF
(momentary OFF)

0056

ON - OFF
(momentary OFF)

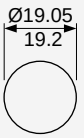
ACTUATOR

R



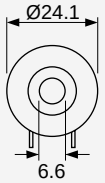
BODY

B
Panel cut-out



	Panel thickness
0055	1.0 - 1.6
0056	1.0 - 2.6

Flange



OPTIONS

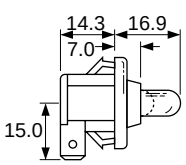
Finish
Gloss finish only

Colour
White is standard

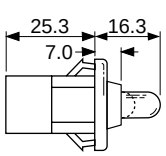
Call factory for
custom colours

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 ---

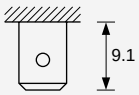
C3005BL ---

C 3005 C B - - -

TERMINAL FUNCTION ACTUATOR BODY COLOUR, ETC

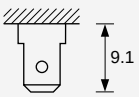
TERMINAL

C



6.3 x 0.8

H



4.8 x 0.8

FUNCTION

3005

ON - OFF
(momentary OFF)

1mm max travel
to OFF position

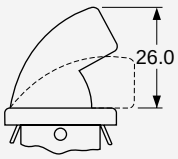
3006

ON - OFF
(momentary ON)

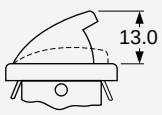
3mm min travel
to ON position

ACTUATOR

B



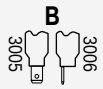
C



BODY

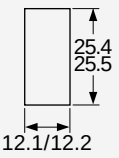
3005 or 3006

R L B

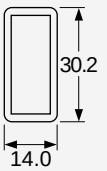


Terminal direction (viewed from hinge end)

Panel cut-out



Flange

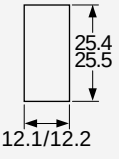


3005 only

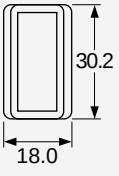
D S U

Terminal direction (viewed from hinge end)

Panel cut-out



Flange



OPTIONS

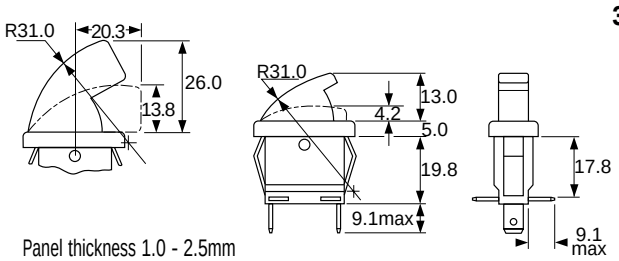
Finish
Gloss finish only

Colour
White is standard

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

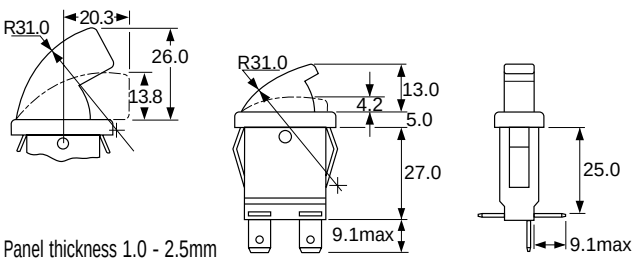
Dimensions (mm) (C terminals shown)

3005



Panel thickness 1.0 - 2.5mm

3006



Panel thickness 1.0 - 2.5mm

3100 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)

µ contact gap
Technical data on pages 4 & 5
Sealed terminals option available. Call factory for details

E3102AA - - -

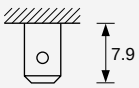
E3111BA - - -

E 3102 A A - - -

TERMINAL FUNCTION ACTUATOR BODY COLOUR, ETC

TERMINAL

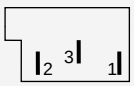
E



4.8 x 0.5

For sealed terminals call the factory

FUNCTION



3101

ON - OFF
(momentary ON)

3102

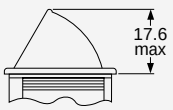
ON - OFF
(momentary OFF)

3111

ON - ON
(momentary 1 side)

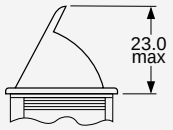
ACTUATOR

A

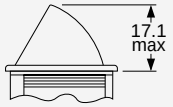


B

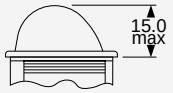
C



D

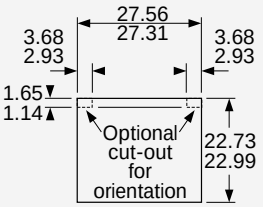


E



BODY

A



Panel cut-out
Panel thickness 1.0 - 2.5mm

OPTIONS

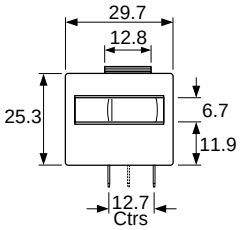
Finish
Gloss finish only

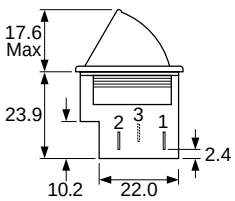
Colour
White is standard

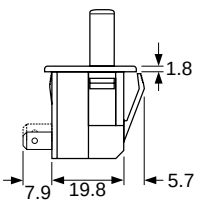
Call factory for
custom colours
A full range is available
for large orders

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 Lamload (400,000 operations)

3mm contact gap
Technical data on pages 4 & 5
Sealed terminals option available. Call factory for details

HK3141AA - - -

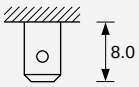
H3145AA - - -

HK 3141 A A - - -

TERMINALS FUNCTION ACTUATOR BODY COLOUR, ETC

TERMINAL

H

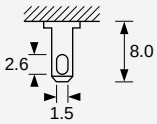


4.8 x 0.8

Standard format is
H terminals
in positions 1 & 2
and
K terminals
in positions 3 & 4

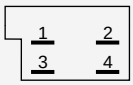
For sealed terminals
call the factory

K



2.8 x 0.8

FUNCTION



3141

ON - ON
(momentary)

3145

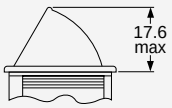
ON - OFF
(momentary OFF)

3146

ON - OFF
(momentary ON)

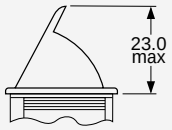
ACTUATOR

A

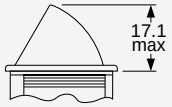


B

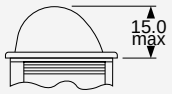
C



D

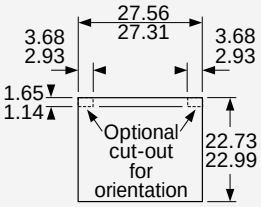


E



BODY

A



Panel cut-out

Panel thickness 1.0 - 2.5mm

OPTIONS

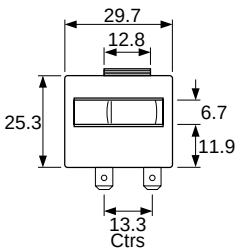
Finish
Gloss finish only

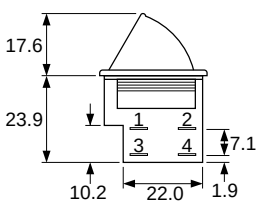
Colour
White is standard

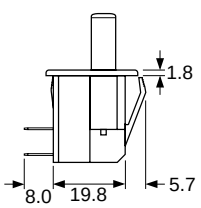
Call factory for
custom colours
A full range is available
for large orders

Dimensions (mm) ("A" actuator shown)
3141 uses terminals 1,2,3,4
3145 uses terminals 3,4
3146 uses terminals 1,2

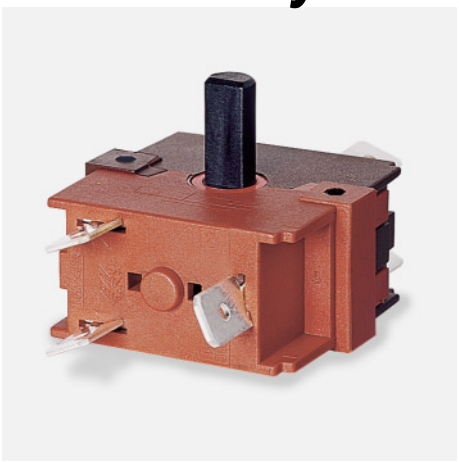
For details of actuator travel
and switching angles call the factory







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

In house test 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

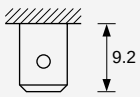
3mm contact gap
Technical data on pages 4 & 5

C 9 5 01 D A

TERMINAL SERIES POSITIONS CIRCUIT SPINDLE BODY

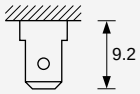
TERMINAL

C



6.3 x 0.8

H



4.8 x 0.8

For approval information on H terminals, contact the factory

Simple circuits may not use all terminals
Unnecessary terminals may be omitted.

SERIES

9

POSITION

2 Switching positions

3 Switching positions

4 Switching positions

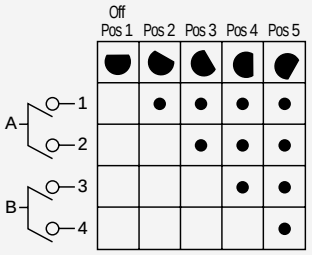
5 Switching positions

6 Switching positions

CIRCUIT

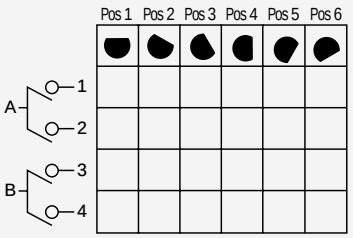
9100 switches offer almost infinite switching options
For this reason it is impractical to show all the options available

The table below gives an example of a 5 position switching sequence:
OFF, 1, 1+2, 1+2+3, 1+2+3+4

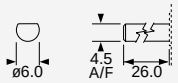


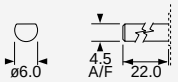
The code for your chosen circuit will be allocated by our technicians
Please contact the factory for details

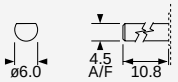
Use the blank table to plan your switching up to 6 positions

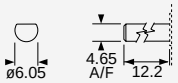


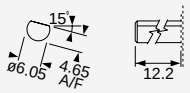
SPINDLE

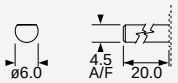
A


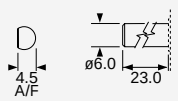
B


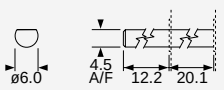
C


D


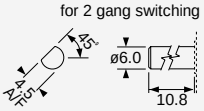
M


N


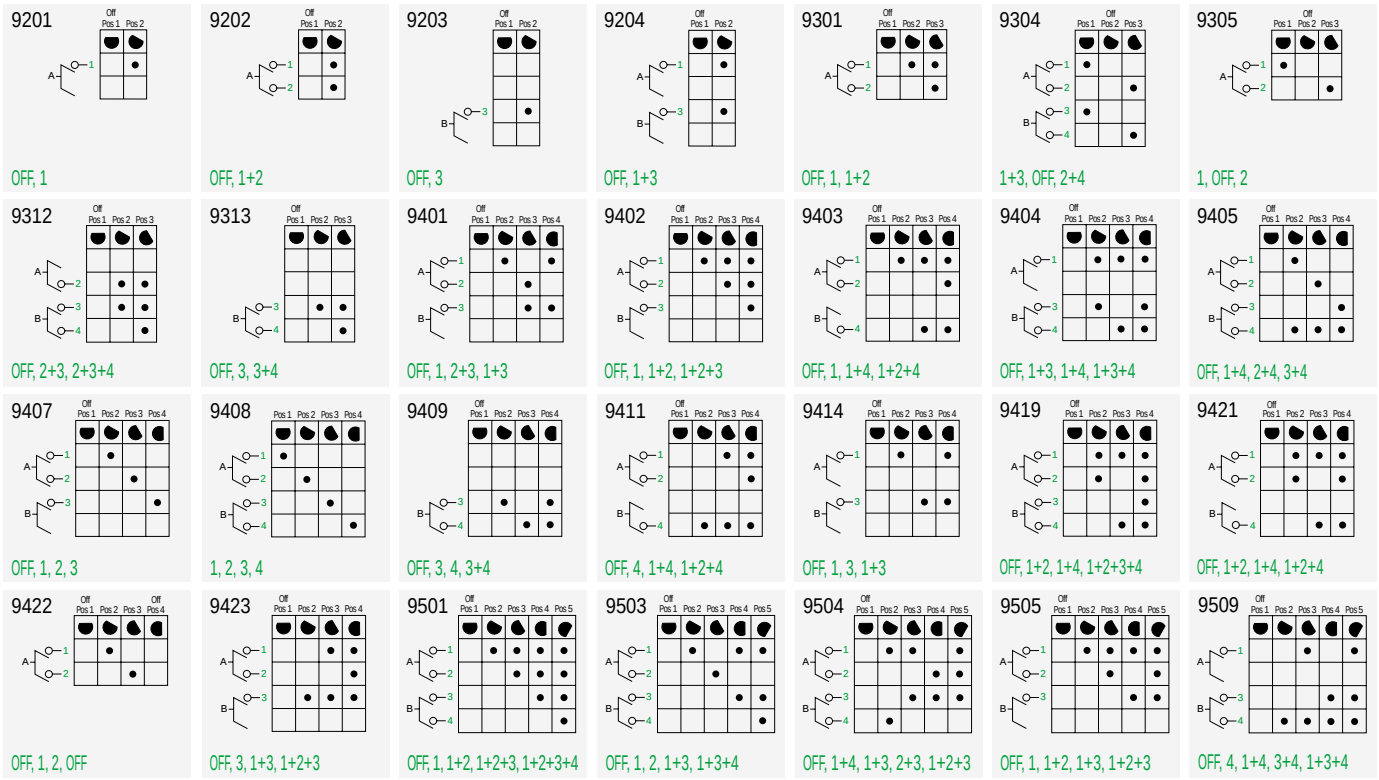
P


R


for 2 gang switching

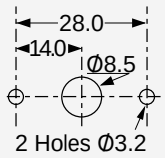
S


L
supplied without spindle



BODY

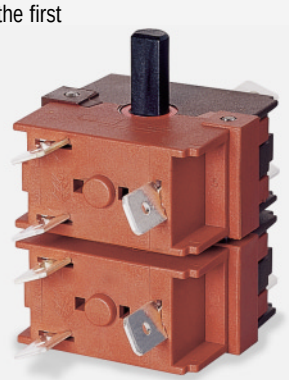
A
Standard 2 hole fixing



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



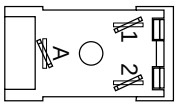
OPTIONS

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

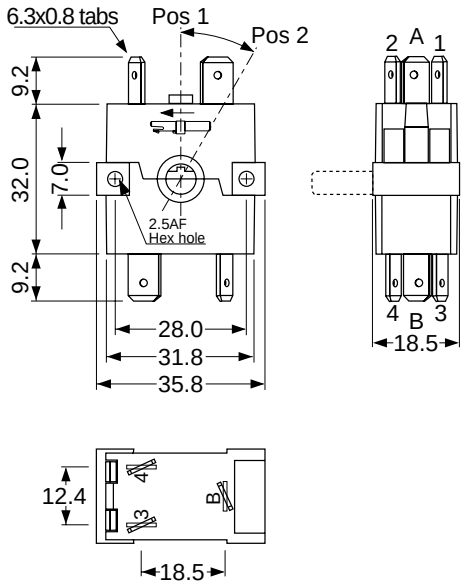
Panel clearance
A spacer can be fitted to the switch body to increase the clearance between the mounting panel and switch terminals

For all options call the factory

DIMENSIONS (mm)



Spindle Movement 360º in 30º intervals



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

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.

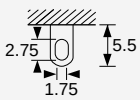
Suitable for class II appliances.
Patent app.

T9000 00 ---

T 9000
TERMINAL FUNCTION

TERMINAL

T

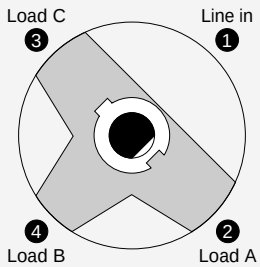


Solder

FUNCTION

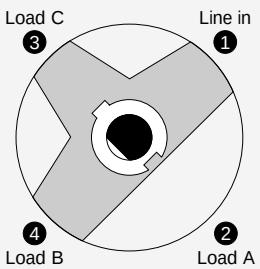
9000

Position 1
Viewed from terminal side



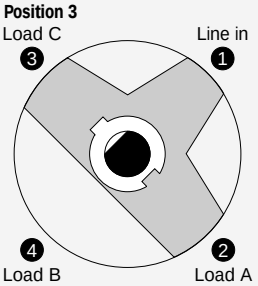
OFF

Position 2



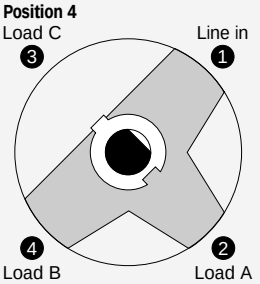
Loads B+C switched

Position 3



Loads A+C switched

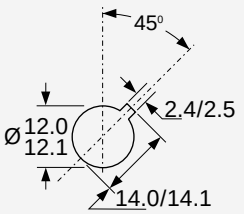
Position 4



Loads A+B switched

BODY

Panel Cut-out

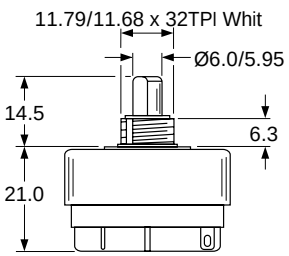


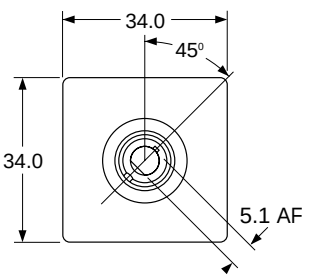
Panel thickness 1.25 - 3.5mm

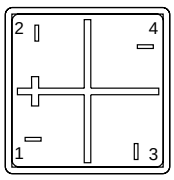
OPTIONS

Rotation Stops
Can be specified to limit the number of switching positions

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 - - -

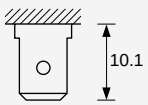
C0600CC - - -

C 0600 H D ---

TERMINAL FUNCTION ACTUATOR BODY OPTIONS

TERMINAL

C



6.3 x 0.8

FUNCTION

0600

ON - OFF

0602

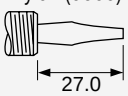
ON - OFF
(momentary ON)

ACTUATOR

C Chromed brass (0600)

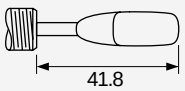
U Nylon (0600)

G Nylon (0600)



H Nylon (0600)

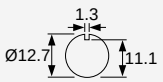
S Chromed brass stem/
nylon paddle (0602 only)



BODY

D Nylon neck and top plate
(Used with actuator codes U, G and H)

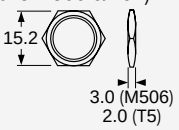
C Metal neck and top plate
(Used with actuator codes C and S)



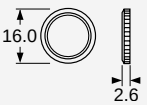
Panel thickness - 3.5mm
Back nut must be fitted

Fixing nuts (Standard is M506 & T92)

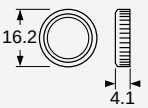
T5 Hex brass
M506 Hex nylon



T92 Knurled brass



M279 Knurled nylon



OPTIONS

Cover M331 (C Actuator only)

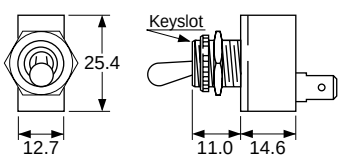
Seal M539 (C,H & U Actuators)
Actuator visible

Cover M1080 (C Actuator only)

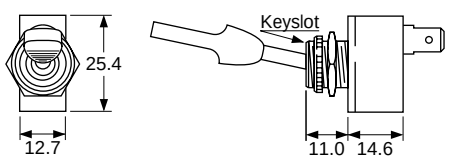
Covers have internal nylon nuts

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

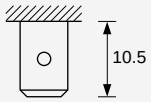
Approvals and ratings vary with function
3mm contact gap except where marked µ
Integral O-ring neck seal
Technical data on pages 4 & 5

C 3900 B A - - -

TERMINAL FUNCTION ACTUATOR BODY OPTIONS

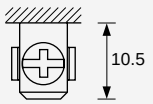
TERMINAL

C



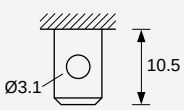
6.3 x 0.8

S



Screw & clamp
available for
On - Off switches only

T



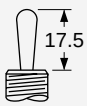
Solder

FUNCTION

Single pole		Double pole
3900	ON - OFF	**3950**
3901	ON - OFF (momentary ON)	**3951**
3902	ON - OFF (momentary OFF)	**3952**
3910	ON - ON	**3960**
3911	ON - ON (momentary 1 side)	**3961**
3920	ON - OFF - ON µ	**3970**
3921	ON - OFF - ON µ (momentary 1 side)	**3971**
3922	ON - OFF - ON µ (momentary 2 sides)	**3972**

ACTUATOR

B



Finish is nickel plate

C3900BA ---

C3920BA ---

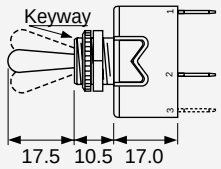
C3950BB ---

C3972BB ---

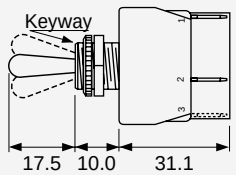
Guard R17-10
Anti-rotation tab can be specified
for guard fitted in On or Off position

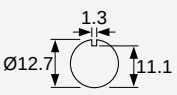
BODY

A
Without terminal barrier
Single pole



B
With terminal barrier
Double pole only





Panel hole (all types)

OPTIONS

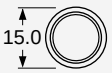
Neck Seal M539
Actuator is visible

Cover M1080

Covers have internal nylon nuts

Fixing nuts
Nickel plated brass are supplied

Hex Back nut



Knurled Front nut

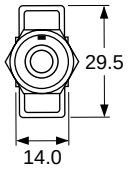
Panel thickness 4.0 with backnut

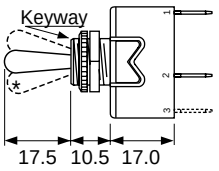
DIMENSIONS (mm)

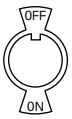
* Indicates ON position (for On - Off switches)

Single Pole

(C terminals shown)



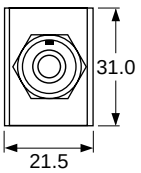


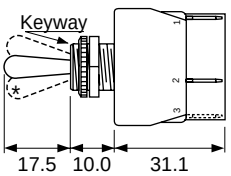


Optional
P232 plate
SP or DP

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

In house test Inrush 36A to EN61058-1 & 20A 28Vdc

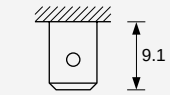
Selective "A, B, C" and "Off, A, A+B" circuits at 5 amp also available
3mm contact gap except where marked µ
Technical data on pages 4 & 5

C 1750 H O - - -

TERMINAL FUNCTION ACTUATOR BODY OPTIONS

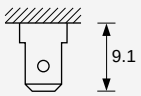
TERMINAL

C



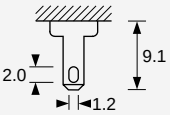
6.3 x 0.8

H



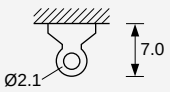
4.8 x 0.8

K



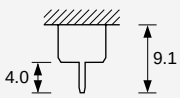
2.8 x 0.8

T



Solder

X



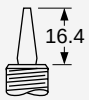
PCB 0.8 Sq

FUNCTION

Single pole		Double pole
1700 ♦	ON - OFF	**1750**
1710 µ ♦	ON - ON	**1760** µ
1720 µ ♦	ON - OFF - ON	**1770** µ
1721 µ	ON - OFF -ON (momentary 1 side)	
1722 µ	ON - OFF - ON (momentary 2 sides)	

ACTUATOR

H

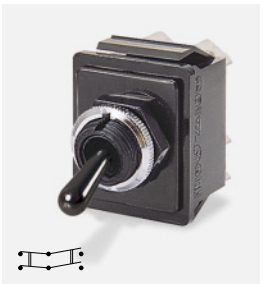


R

The switch is on between centre terminals (2 & 5) and the terminals over which the lever is positioned

C1700RO ---

C1700HO ---

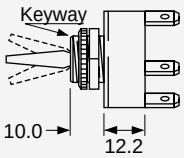


C1760RO ---

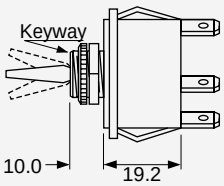
C1750HO ---

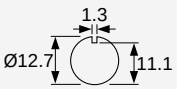
BODY

O
Single pole



O
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

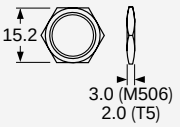
Cover M1080
Rubber -57T145
(R Actuator only)

Cover M331
PVC -5T85
(R Actuator only)

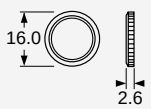
Covers have internal nylon nuts

Fixing nuts (Standard is M506 & T92)

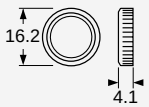
T5 Hex brass
M506 Hex nylon



T92 Knurled brass



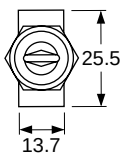
M279 Knurled nylon

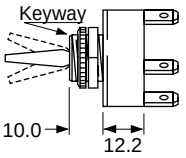


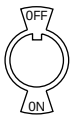
DIMENSIONS (mm)

Single Pole

(C terminals shown)



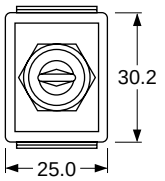


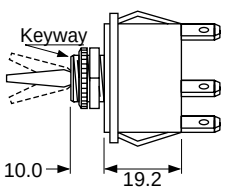


Optional
P232 plate
SP or DP

Double Pole

(C terminals shown)





Optional terminal barrier M441 is available

Technical Information - Indicators

The majority of Arcolectric 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.

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.

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	

SYMBOLS

Indicator Lights *(Neon, LED and Filament Lamp)*

UL file E63363 CSA file LR29381

Colours and voltages:

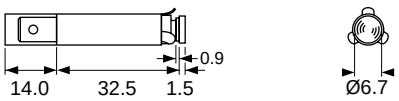
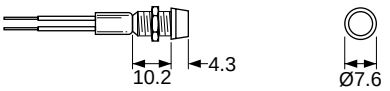
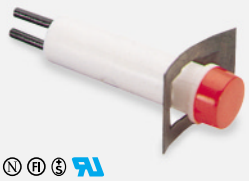
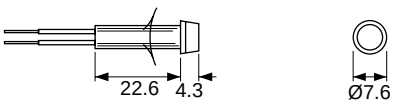
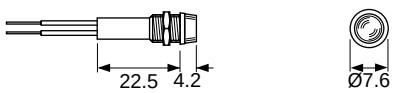
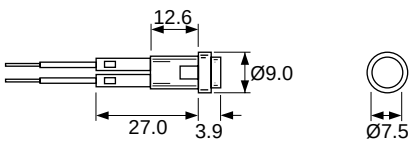
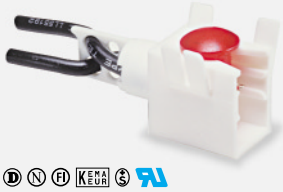
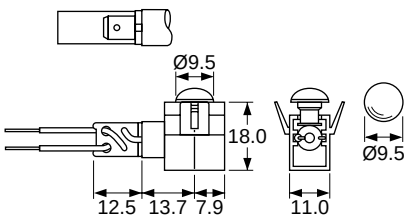
Neon Red, Amber, Green, Clear
100/130V (marked 110V), 200/250V (marked 230V)

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	DIMENSIONS (mm)
C 6.3	(C) **0145 AA** 	∅ 5.8 3.0max page 66	
L **W**	(L) **1041 00** Chrome bezel 	∅ 6.3 6.3max page 66	
L **W**	(L) **1045 00** Chrome bezel available 	∅ 6.3 10.0max page 66	
L **W**	(L) **0245 00** Chrome bezel available 	∅ 7.1 6.3max page 66	
L	**L 2950 00** Chrome bezel available 	∅ 8.0 0.8-1.6 page 66	
L **C** 6.3	(L) **0195 BB** 	∅ 8.0 0.8-3.0 page 66	

Indicator Lights *(Neon, LED and Filament Lamp)*

UL file E63363 CSA file LR29381

Colours and voltages:

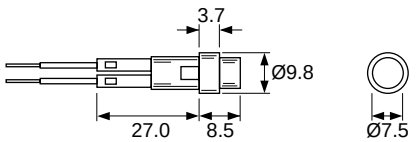
Neon	Red, Amber, Green, Clear 100/130V (marked 110V), 200/250V (marked 230V)
LED	Red, Yellow, Green 2.0/2.2V Resistors for other voltages available
Filament lamp	Red, Amber, Green, (Clear & Blue check availability) 6V, 12/14V, 24/28V

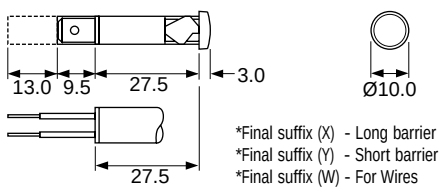
To create a catalogue number:
Refer to the 2 columns below (terminal and type)

Then state:
Lens colour, voltage and whether neon, LED or filament lamp

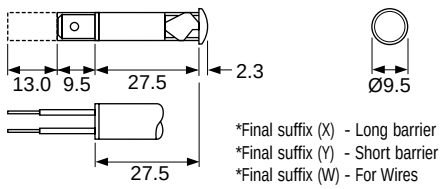
TERM	TYPE	PANEL & °C
L	**L 2951 00** Chrome bezel available 	8.0 0.8-1.6 page 66
L K 2.8 H 4.8	(H) **0568 A**(*) Deep lens profile  (VDE at T100) NEW	8.0 0.8-3.5 page 66
L K 2.8 H 4.8	(H) **0568 B**(*) Shallow lens profile  (VDE at T100) NEW	8.0 0.8-3.5 page 66
L	(L) **0569 AW**  NEW	9.0 0.8-2.5 Call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

DIMENSIONS (mm)

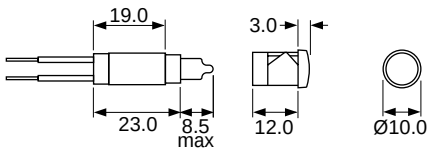


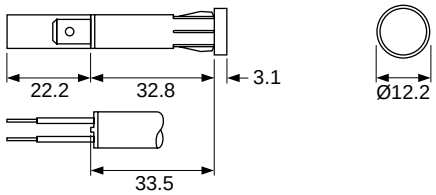


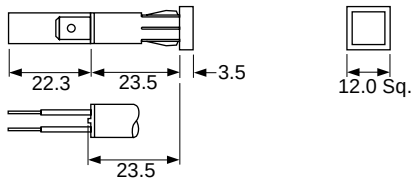
*Final suffix (X) - Long barrier
*Final suffix (Y) - Short barrier
*Final suffix (W) - For Wires



*Final suffix (X) - Long barrier
*Final suffix (Y) - Short barrier
*Final suffix (W) - For Wires

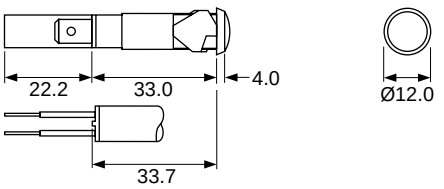


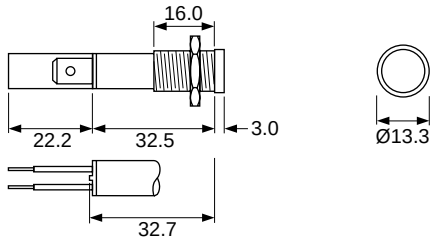


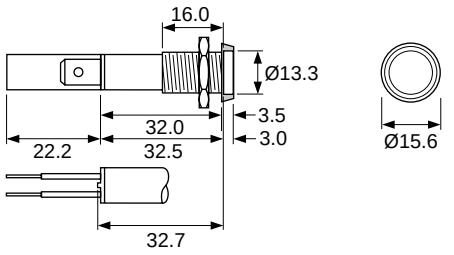


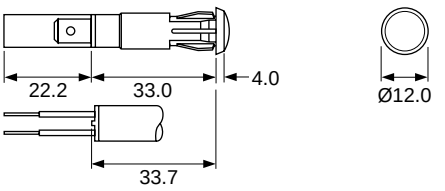
TERM	TYPE	PANEL & °C
L K 2.8 H 4.8 C 6.3	(C) **0276 AA** 	9.5 0.8-2.8 page 66
L K 2.8 H 4.8 C 6.3	(C) **0275 OO** 	10.0 12.0 max page 66
L K 2.8 H 4.8 C 6.3	(C) **0275 OO** Chrome bezel 	10.0 11.5 max page 66
L K 2.8 H 4.8 C 6.3	(C) **0276 OO** 	10.0 2.8 max page 66
L K 2.8 H 4.8 C 6.3	(C) **0277 OO** Chrome bezel 	10.0 12.0 max page 66
L K 2.8 H 4.8 C 6.3	(C) **0273 LL** NEW 	10.0 0.6-2.0 page 66

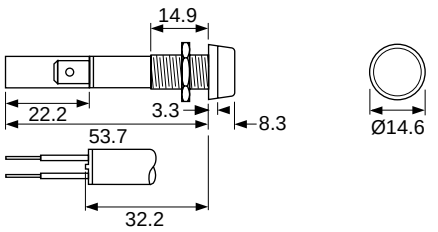
DIMENSIONS (mm)



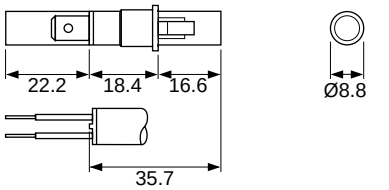








For sub-panel mounting, behind a facia



Indicator Lights *(Neon, LED and Filament Lamp)*

UL file E63363 CSA file LR29381

Colours and voltages:

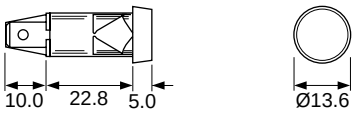
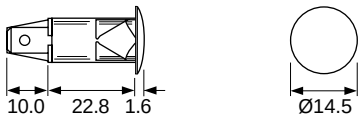
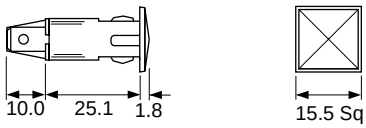
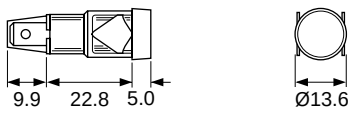
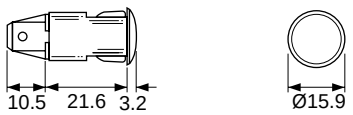
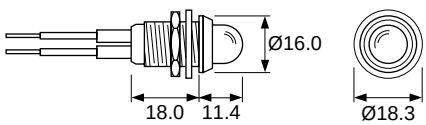
Neon Red, Amber, Green, Clear
100/130V (marked 110V), 200/250V (marked 230V)

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

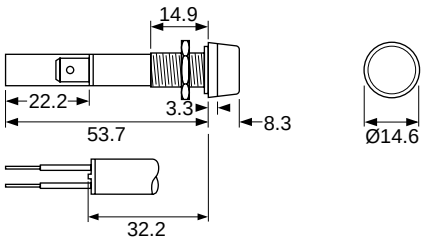
To create a catalogue number:
Refer to the 2 columns below (terminal and type)

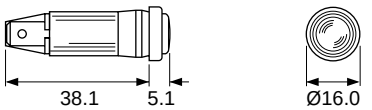
Then state:
Lens colour, voltage and whether neon, LED or filament lamp

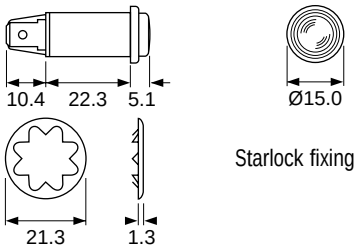
TERM	TYPE	PANEL & °C	DIMENSIONS (mm)
L K 2.8 H 4.8 C 6.3	(C) **2820 00** 	12.0 0.75-2.0 page 66	
L K 2.8 H 4.8 C 6.3	(C) **2821 00** 	12.0 or 12.7 Ø12.0 = 0.8-2.5 Ø12.7 = 1.1-2.5 page 66	
L K 2.8 H 4.8 C 6.3	(C) **0586 00** 	12.5 0.8-1.5 page 66	
L K 2.8 H 4.8 C 6.3	(C) **2870 00** 	12.7 0.75-2.0 page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

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

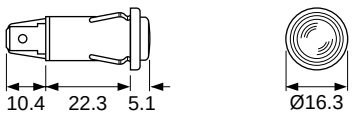
DIMENSIONS (mm)

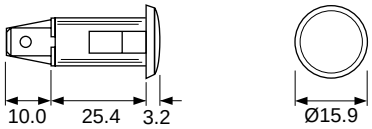






Starlock fixing





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

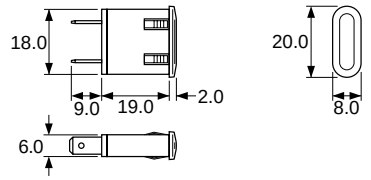
To create a catalogue number:
Refer to the 2 columns below (terminal and type)

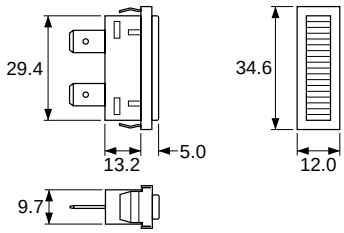
Then state:
Lens colour, voltage and whether neon, LED or filament lamp

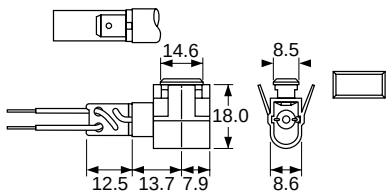
* Call factory for details

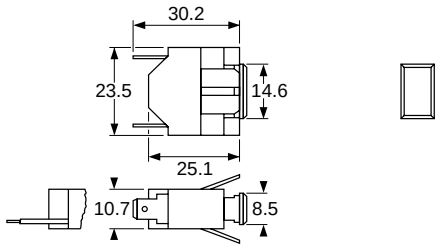
TERM	TYPE	PANEL & °C
H 4.8	**H 0581 AY**  NEW	18.2/18.3 x 6.2/6.3* 2.0-3.5 page 66
C 6.3	**C 0582 AY**  NEW	32.5/32.6 x 10.0/10.1* 0.8-2.3 page 66
L	**L 0195 00** 	13.0x6.5 0.8-3.0 page 66
L **C** 6.3	(C) **0196 AA** 	13.0x6.5 0.8-3.0 page 66
L	**L 0234 00** 	9.27/9.50 x 4.75* 0.71-1.62 page 66
L	**L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

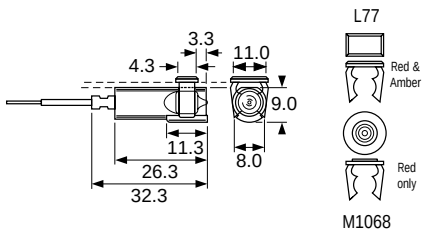
DIMENSIONS (mm)

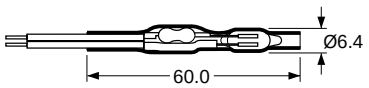












Neon tube, resistor and flexible lead assembly, protected by “shrunk on” transparent sleeving

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

UL file E63363 CSA file LR29381

Colours and voltages:

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 and Blue
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	DIMENSIONS (mm)

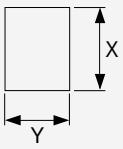
H 4.8

H8580 AB

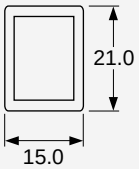
Full product details on pages 10-11

Body Code	Panel thickness	Cut-out X	Cut-out Y
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

Cut-out



Flange



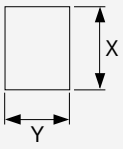
H 4.8
T
X

H8630 FB

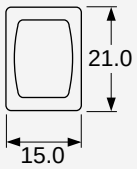
Full product details on pages 12-13

Body Code	Panel thickness	Cut-out X	Cut-out Y
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

Cut-out



Flange



H 4.8

R9 92B

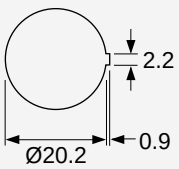
Factored product

Approvals details - contact the factory

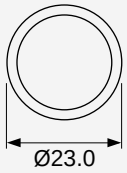
Full product details on pages 16-17

Snap fixing in panels thickness up to 3.0

Cut-out



Flange



C 6.3
H 4.8
K 2.8
T **U**

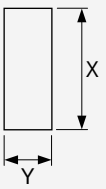
C0430 A(*) NEW **C6030 AL**

6030 - L body & C terminals only

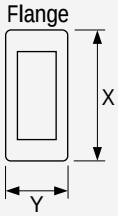
Full product details on pages 18-19 & 20-21

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

Cut-out



Flange



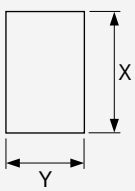
C 6.3
H 4.8
K 2.8
T **U**

C0480 A(*)

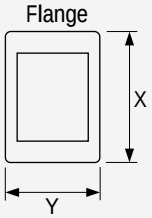
Full product details on pages 26-27

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

Cut-out



Flange



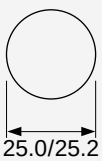
C 6.3
H 4.8

C7030 AH

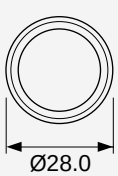
Full product details on pages 38-39

Body Code	Cut-out	Flange
H	Ø25.0/25.2	Ø28.0

Cut-out



Flange



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

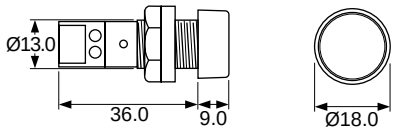
To order
Select a number from the "type" column

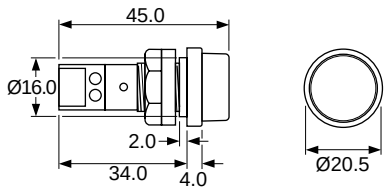
Then state:
Lens colour, voltage and whether neon or LED

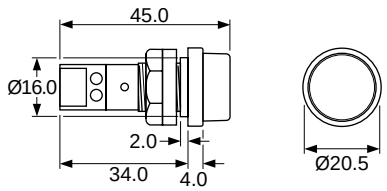
All versions have recessed screw terminals
IP52 is standard. A panel sealing washer is available for IP54

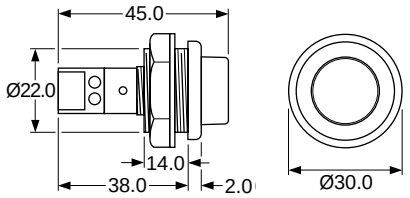
TERM	TYPE	PANEL & °C
Recessed Screw	**3130** No bezel 	⌀ 13.2 8.0max T120 neon T50 LED
Recessed Screw	**3160** Black bezel 	⌀ 16.2 5.0max T120 neon T50 LED
Recessed Screw	**3161** Satin chrome style bezel 	⌀ 16.2 5.0max T55 neon T50 LED
Recessed Screw	**3221** Large black bezel 	⌀ 22.3 4.5max T120 neon T50 LED

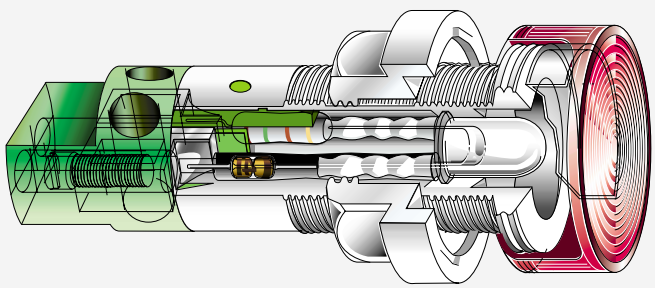
DIMENSIONS (mm)











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

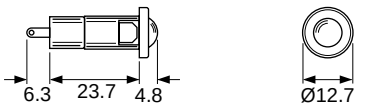
Colours - Red, Amber, Green, (Clear & Blue, check availability)

To create a catalogue number:
Refer to the 2 columns below (terminal and type)

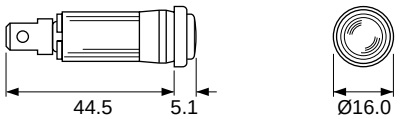
Then state:
Lens colour and voltage

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

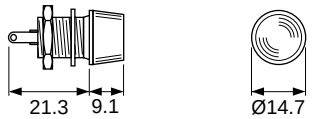
DIMENSIONS (mm)



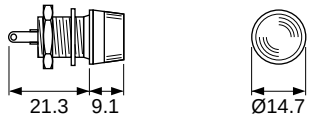
Rear of panel bulb replacement



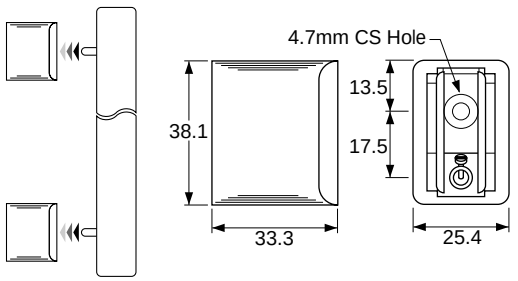
Rear of panel bulb replacement



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:

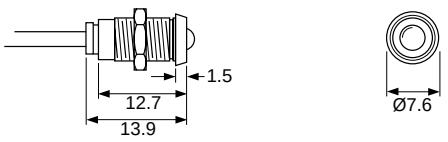
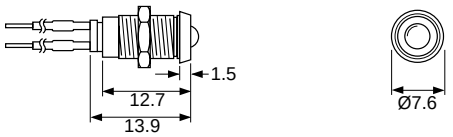
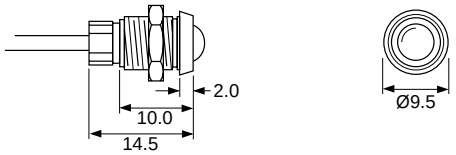
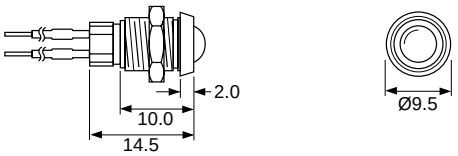
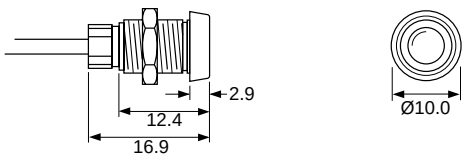
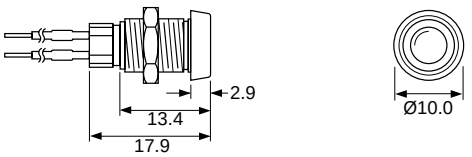
Red, Yellow and Green LEDs
(High Intensity is standard. Option of extra super bright)

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)
W LED fitted **A** LED not fitted	(W) **1047 00**  3mm LED	∅ 6.3 6.3max T85	
L LED & Wires fitted	**L 1047 00**  3mm LED	∅ 6.3 6.3max T85	
W LED fitted **A** LED not fitted	(W) **1048 00**  5mm LED	∅ 8.0 5.5max T85	
L LED & Wires fitted	**L 1048 00**  5mm LED	∅ 8.0 5.5max T85	
W LED fitted **A** LED not fitted	(W) **1050 00**  5mm LED with focusing reflector	∅ 8.0 7.0max T85	
L LED & Wires fitted	**L 1050 00**  5mm LED with focusing reflector	∅ 8.0 7.0max T85	

LED Lamps and LED Lampholders - Designed to IP66

LED Lampholders can be supplied with or without lamps

Colours:

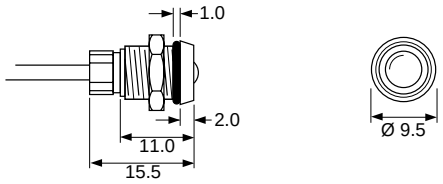
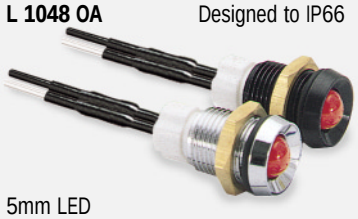
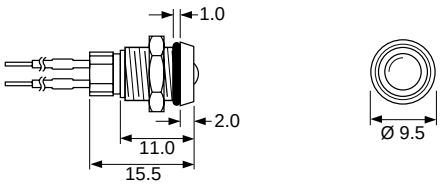
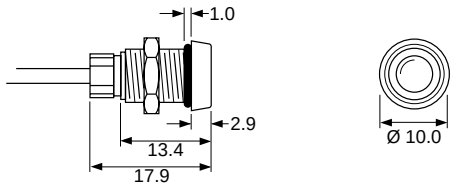
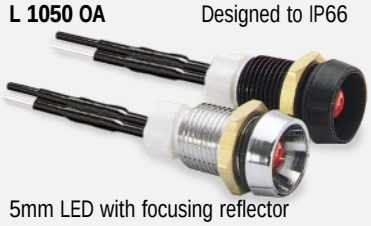
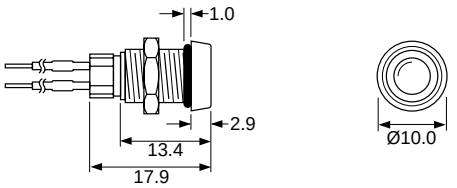
Red, Yellow and Green LEDs
(High Intensity is standard. Option of extra super bright)

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)
W LED fitted	(W) **1048 OA** Designed to IP66  5mm LED	∅ 8.0 5.5max T85	
A LED not fitted			
L LED & Wires fitted	**L 1048 OA** Designed to IP66  5mm LED	∅ 8.0 5.5max T85	
W LED fitted	(W) **1050 OA** Designed to IP66  5mm LED with focusing reflector	∅ 8.0 7.0max T85	
A LED not fitted			
L LED & Wires fitted	**L 1050 OA** Designed to IP66  5mm LED with focusing reflector	∅ 8.0 7.0max T85	

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.

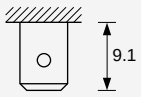
Colours - Red, Amber, Green, (Clear & Blue, check availability)
Brass bodies have polished chrome finish

C1090FP - - -

C1090FL - - -

C 1090 F A - - -

TERMINAL LAMP CAP LENS BODY VOLTAGE, COLOUR, ETC

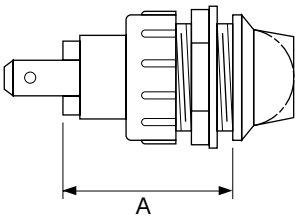
TERMINAL	LAMP CAP	LENS
C  6.3 x 0.8	**1090** E10 	**F** Flat 
	1091 BA9s 	**V** Domed  N/A for L & M body
		L No lens

THREADED BODY

Panel Hole Dia.	Body Material	Dimension A
for E10 types		
A 19.0	Brass	35.0
D 19.0	Brass	30.2
E 19.0	Nylon	30.2
***P** 19.0	Nylon (+ chrome trim)	30.2
G 19.0	Brass	24.6
H 19.0	Nylon	24.6
L 25.4	Brass	30.2
for BA9s types		
B 19.0	Brass	35.0
C 19.0	Nylon	35.0
***Q** 19.0	Nylon (+ chrome trim)	35.0
M 25.4	Brass	41.8

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

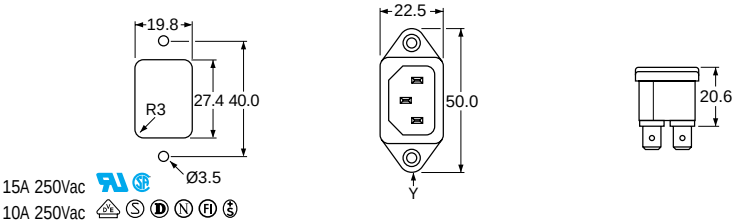
TYPE | TERMINAL (connector) | TERMINAL (switch) | PANEL thickness

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

DIMENSIONS (mm)

View below is at Y

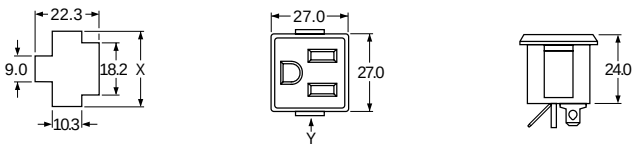
0707-1-C / 0708-1-C



15A 250Vac
10A 250Vac

0709-P

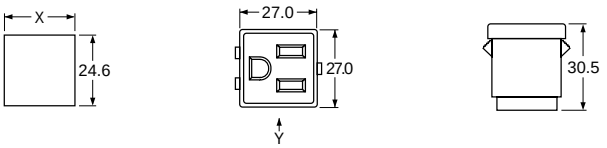
Panel thickness	X
0.8	24.0
1.0	24.6
1.2	25.2
1.6	26.2



15A 250Vac

0710-P

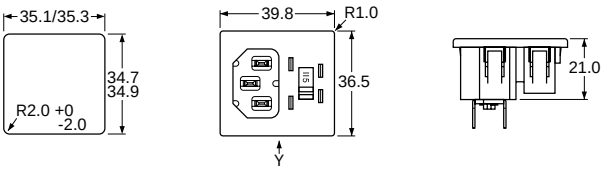
Panel thickness	X
0.8 - 1.2	24.6
1.3 - 2.0	24.8



0710-PV16 is 13A 250Vac. 0710-PV12 is 15A 250Vac
SP 2 position switch is standard

0711-1S

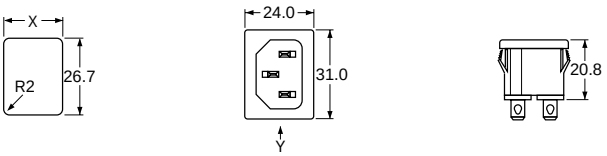
Panel thickness:
0.8 or 1.0 or 1.2
Call factory
for details



Rating/approval details on request

0711-P

Panel thickness	X
0.8 - 1.2	20.3
1.3 - 2.0	20.5



15A 250Vac
10A 250Vac

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

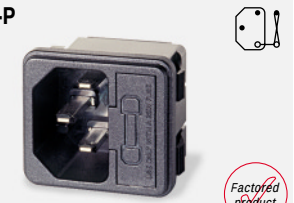
0717-1S Q T 1.0mm

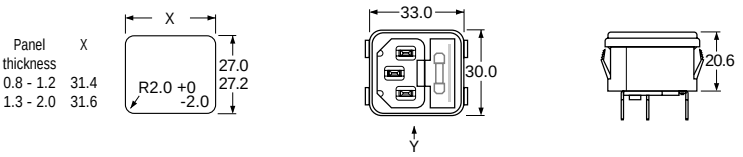
TYPE | TERMINAL (connector) | TERMINAL (switch) | PANEL thickness

TYPE	TERMINAL
0717-1-P	**S** 2.5 Solder
	LS 2.8 Solder
	Q 4.8 Tab
	W 6.3 Tab
0717-1S State "Non Lit"	**Q** 4.8 Solder Connector
	T 4.8 Solder Switch
0717-1S State "Lit"	**Q** 4.8 Solder Connector
	T 4.8 Solder Switch
0717-C	**S** 2.5 Solder
	LS 2.8 Solder
	Q 4.8 Tab
	W 6.3 Tab
0717-2-C (2k min order)	**S** 2.5 Solder
	LS 2.8 Solder
	Q 4.8 Tab
	W 6.3 Tab
0717-2-P (2k min order)	**S** 2.5 Solder
	LS 2.8 Solder
	Q 4.8 Tab
	W 6.3 Tab

DIMENSIONS (mm)

View below is at Y

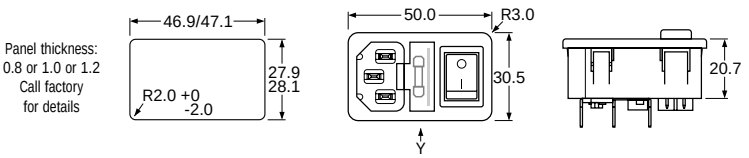

Fused Inlet 5x20



10A 250Vac

DP non-illuminated switch is standard

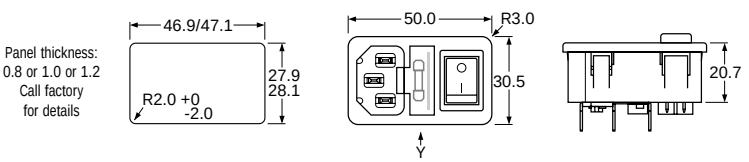

Switched Fused Inlet 5x20



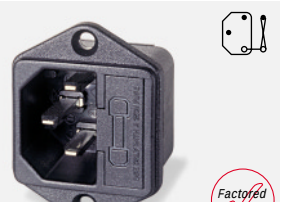
10A 250Vac

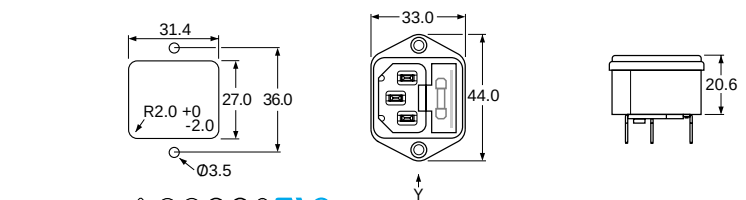
DP illuminated switch is standard


Switched Fused Inlet 5x20



10A 250Vac

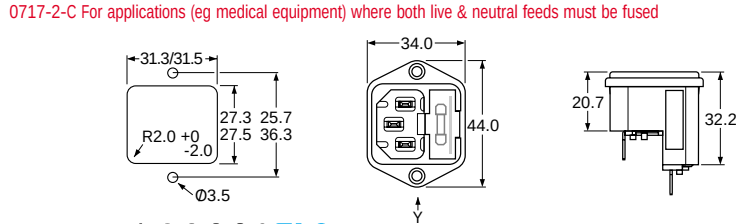

Fused Inlet 5x20



10A 250Vac

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

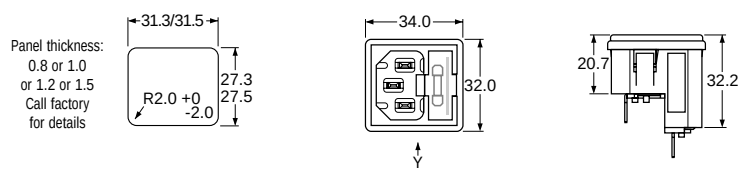

Double Fused Inlet 5x20



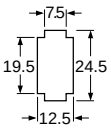
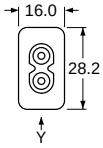
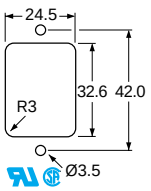
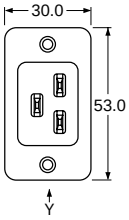
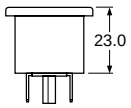
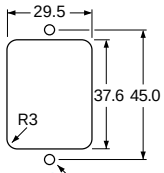
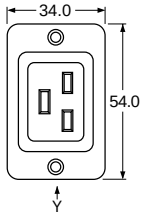
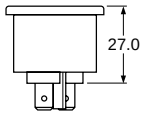
10A 250Vac

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


Double Fused Inlet 5x20



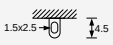
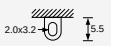
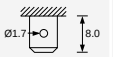
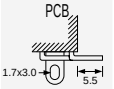
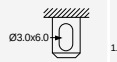
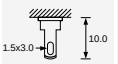
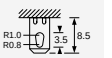
10A 250Vac

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

Technical data

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

Terminal dimensions

	For Connectors								For Switches		
									Slide	Slide	Rocker
S	**N**	**Q**	**W**	**P**	**L**	**LS**	**V12**	**V16**	**T**	**K**	**T**
2.5mm Solder	4mm Solder	4.8mm Solder/ Fast on	6.3 Fast on	PCB	Solder	2.8mm Solder	12-14 AWG Solid Wire	16 AWG Solid Wire	Solder	2.8mm Solder	4.8mm Solder
 	 	 	 	 	 	 	 	 	 	 	

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

M520
Terminal Cover

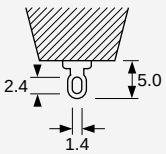
A0033 OO
In-line 5 x 20 fuseholder
Call factory for rating details

T 0332 RA ------

TERMINAL | BODY & CAP | PANEL HOLE | OPTIONS

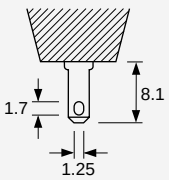
TERMINAL

T



Solder

B



2.8 x 0.5

BODY AND CAP

0332
Finger release

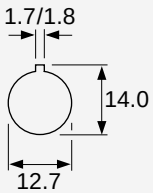
0333
Tool release

0340
Tool release

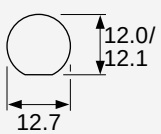
0341
Tool release

PANEL HOLE

RA

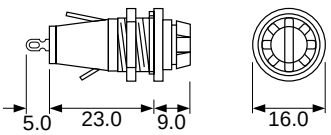


RD



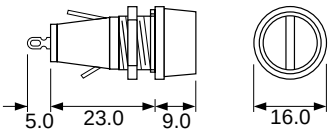
DIMENSIONS (mm)

0332 (T terminal shown)



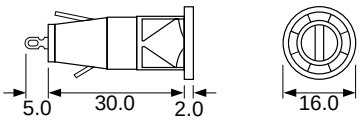
Panel thickness 0.8-4.5mm

0333 (T terminal shown)



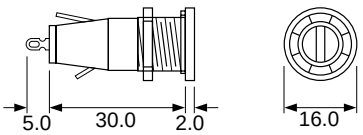
Panel thickness 0.8-4.5mm

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

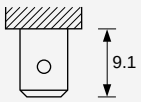
A0035 OO
In-line 6 x 30 1¼ x ¼ fuseholder
Call factory for rating details

T 0347 RA ------

TERMINAL BODY & CAP PANEL HOLE OPTIONS

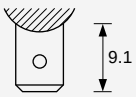
TERMINAL

C



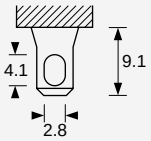
6.3 x 0.8

D



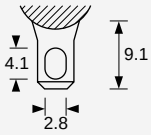
6.3 x 0.8
Right angle

T



4.8 x 0.8
Solder

U



4.8 x 0.8
Right angle solder

BODY AND CAP

0345 (C terminal shown)

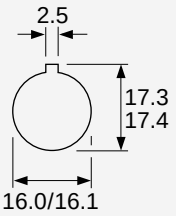
0345 (D terminal shown)

0347 (T terminal shown)

0347 (U terminal shown)

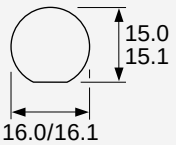
PANEL HOLE

RA



Panel thickness
0.8 - 2.0mm for snap-in
0.8 - 4.5mm for nut fixing

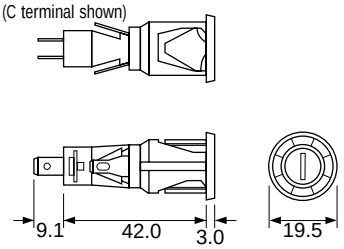
RD



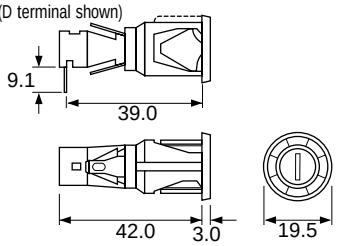
Panel thickness
0.8 - 2.0mm for snap-in
0.8 - 4.5mm for nut fixing

DIMENSIONS (mm)

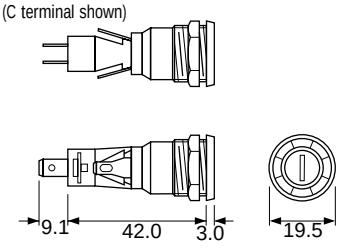
0345 (C terminal shown)



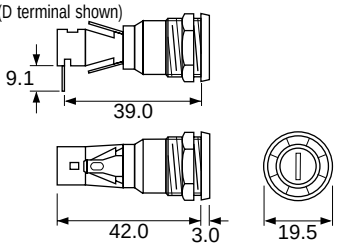
0345 (D terminal shown)



0347 (C terminal shown)



0347 (D terminal shown)



Index

Conditions of sale

For the purposes of the following Conditions of Sale, the words "The Company" refer to Arcolectric 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.

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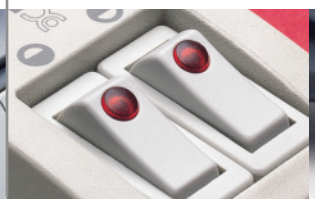
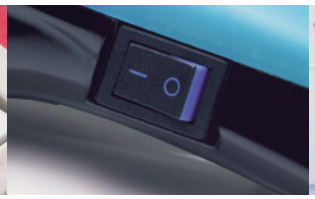


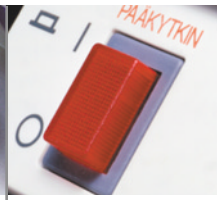

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