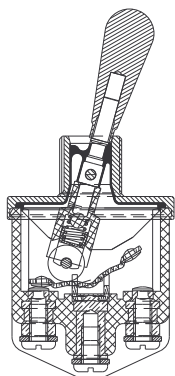


# 3500 series

## High performance toggle switches - environmentally sealed

*Distinctive features and specifications*

UG1410A



### ☐ Completely sealed switches withstanding 0,1 bar pressure

- Frontal sealing to IP67 or IP69K by a silicone membrane (for sealed panel mounting, add washer U60, section I).
- Rear sealing to IP 64 provided by moulded-in terminal inserts

### ☐ Approved to European standards CECC 96000

### ☐ Three types of terminals

### ☐ Many lever styles available

#### ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load and electrical life at full load: see table below
- Initial contact resistance : 10 mΩ max. at 1A 2VDC
- Insulation resistance : 1.000 MΩ
- Dielectric strength : 2.500 Vrms 50 Hz min. between terminals  
3.000 Vrms 50 Hz min. between terminals and frame

| FUNCTIONS             | GENERAL PERFORMANCES                                                                |
|-----------------------|-------------------------------------------------------------------------------------|
| ON-OFF<br>et<br>ON-ON | 10.000 cycles, T20°C<br>15A 28VDC resistive<br>15A 28VDC inductive<br>5A 28VDC lamp |
| ON OFF ON             | 10.000 cycles, T20°C<br>15A 28VDC resistive<br>15A 28VDC inductive<br>5A 28VDC lamp |
| AUTRES<br>FONCTIONS   | 10.000 cycles, T20°C<br>15A 28VDC resistive<br>10A 28VDC inductive<br>3A 28VDC lamp |

#### MATERIALS

- Case : mineral filled polyester UL94-V0
- Bushing and cover : zamac
- Actuator : brass, nickel or chrome plated, or anodized aluminium
- Contacts : silver alloy

#### AGENCY APPROVAL



CECC 96201-004

**Availability** : consult factory for details of approved models.

**Marking** : to order switches marked CECC, complete appropriate box of ordering format.

#### GENERAL SPECIFICATIONS

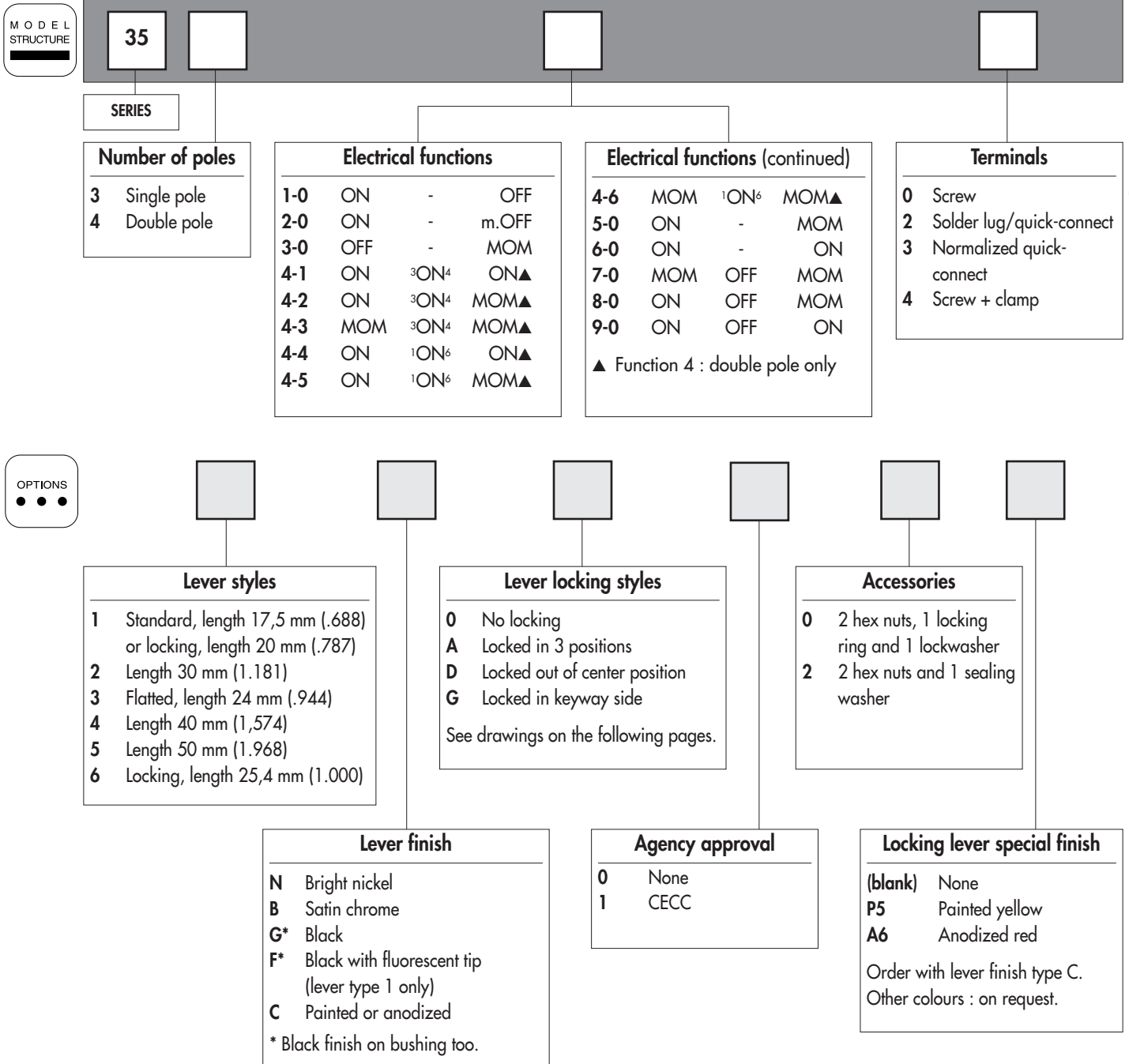
- Mechanical life : 40.000 cycles
- Torque : 2 Nm (1.47 Ft.lb) max. applied to nut
- Panel thickness : see "Mounting Accessories" on the following pages
- Operating temperature : -40°C to +85°C
- Moisture resistance : 56 days

The company reserves the right to change specifications without notice.

# 3500 series

High performance toggle switches - environmentally sealed

Overview



**NOTICE** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

## ABOUT THIS SERIES

On the following pages, you will find successively :

- model structure of switches
- their options in the same order as in above chart

**Dimensions** : first dimensions are in mm while inches are shown as bracketed numbers.

**Security caps** are available to prevent inadvertent lever operation. They are presented in section I.



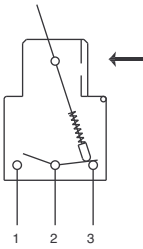
**Packaging unit** : 25 pieces

# 3500 series

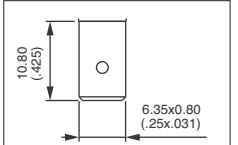
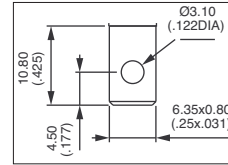
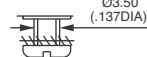
High performance toggle switches - environmentally sealed

MODEL  
STRUCTURE

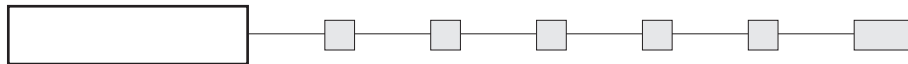
→ Keyway



- Screw, solder lug or quick-connect terminals
- Also available with threaded terminals : consult factory
- Screw terminals + clamp : on request.



MODEL  
STRUCTURE



Shown with standard lever

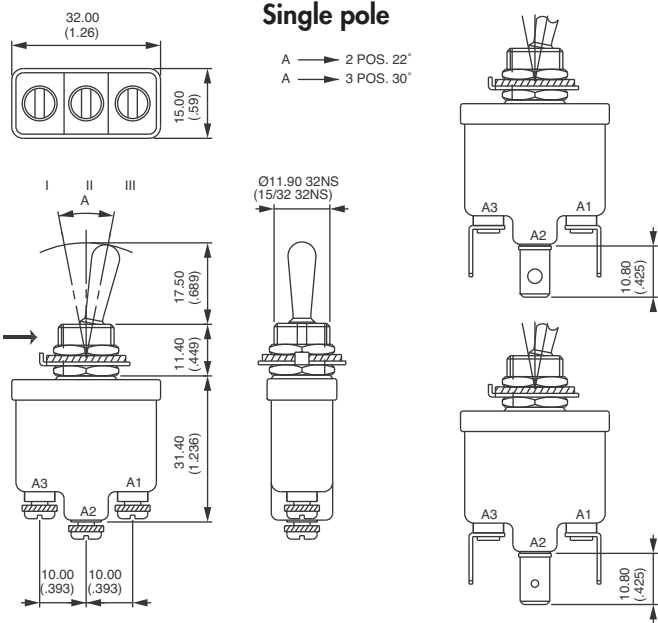


| FUNCTIONS |          |       | BASIC PART NUMBER |             |                                     |             |                                    |             |
|-----------|----------|-------|-------------------|-------------|-------------------------------------|-------------|------------------------------------|-------------|
| III       | II       | I     | Screw terminals   |             | Solder lugs and quick-connect term. |             | Normalized quick-connect terminals |             |
| A2-A3     | * A3-B5  | A1-A2 | Single pole       | Double pole | Single pole                         | Double pole | Single pole                        | Double pole |
| B5-B6     | ** A1-B5 | B5-B4 |                   |             |                                     |             |                                    |             |
| ON        | -        | OFF   | 3531-00           | 3541-00     | 3531-02                             | 3541-02     | 3531-03                            | 3541-03     |
| ON        | -        | m.OFF | 3532-00           | 3542-00     | 3532-02                             | 3542-02     | 3532-03                            | 3542-03     |
| OFF       | -        | MOM   | 3533-00           | 3543-00     | 3533-02                             | 3543-02     | 3533-03                            | 3543-03     |
| ON        | ON *     | ON    |                   | 3544-10     |                                     | 3544-12     |                                    | 3544-13     |
| ON        | ON *     | MOM   |                   | 3544-20     |                                     | 3544-22     |                                    | 3544-23     |
| MOM       | ON *     | MOM   |                   | 3544-30     |                                     | 3544-32     |                                    | 3544-33     |
| ON        | ON **    | ON    |                   | 3544-40     |                                     | 3544-42     |                                    | 3544-43     |
| ON        | ON **    | MOM   |                   | 3544-50     |                                     | 3544-52     |                                    | 3544-53     |
| MOM       | ON **    | MOM   |                   | 3544-60     |                                     | 3544-62     |                                    | 3544-63     |
| ON        | -        | MOM   | 3535-00           | 3545-00     | 3535-02                             | 3545-02     | 3535-03                            | 3545-03     |
| ON        | -        | ON    | 3536-00           | 3546-00     | 3536-02                             | 3546-02     | 3536-03                            | 3546-03     |
| MOM       | OFF      | MOM   | 3537-00           | 3547-00     | 3537-02                             | 3547-02     | 3537-03                            | 3547-03     |
| ON        | OFF      | MOM   | 3538-00           | 3548-00     | 3538-02                             | 3548-02     | 3538-03                            | 3548-03     |
| ON        | OFF      | ON    | 3539-00           | 3549-00     | 3539-02                             | 3549-02     | 3539-03                            | 3549-03     |

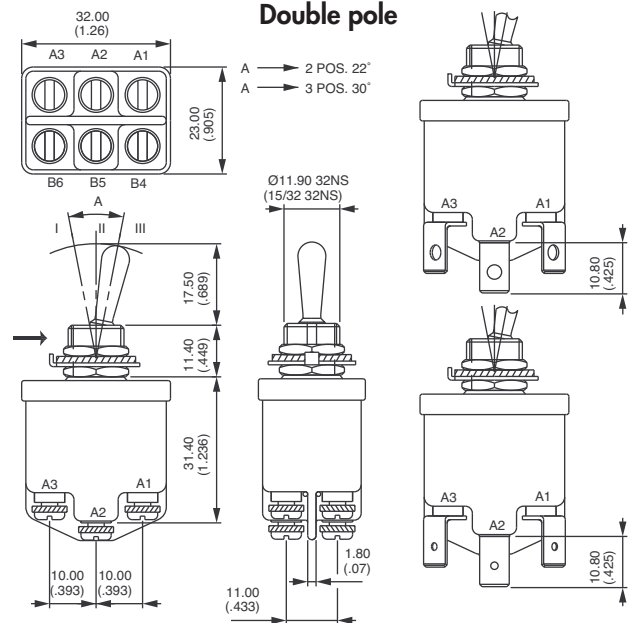
→ Keyway

\* and \*\*: A2-B4 and A2-B6 = jumper to be wired by the user.

Single pole



Double pole

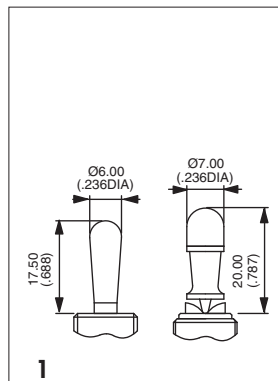
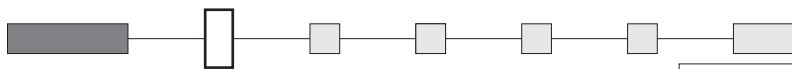




# 3500 series

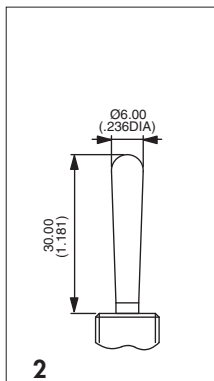
High performance toggle switches - environmentally sealed

## LEVER STYLES

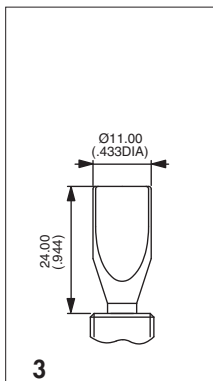


1

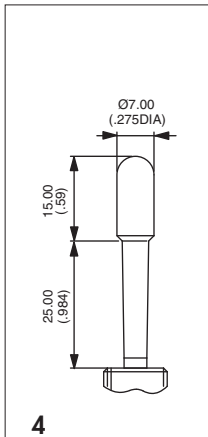
Standard



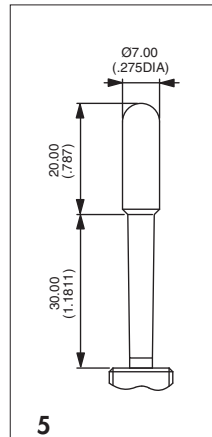
2



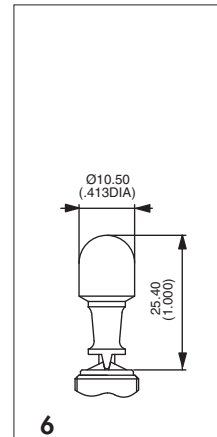
3



4

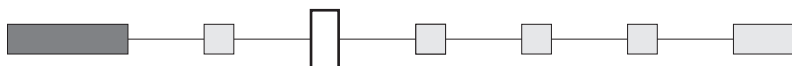


5



6

## LEVER FINISH



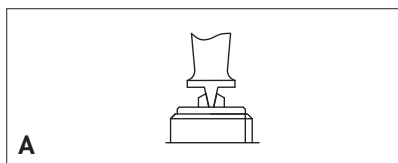
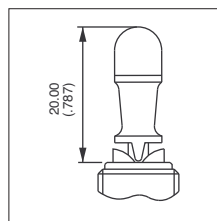
- N Bright nickel
- B Satin chrome
- G\* Black
- F\* Black with fluorescent tip (available with lever type 1 only)
- C Painted or anodized (for locking lever only)

\* Black finish on bushing too.

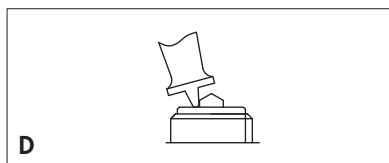
## LOCKING LEVER STYLES



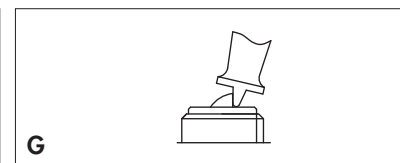
0 No locking



A  
Locked in 3 positions.  
For functions 4-1, 4-4 and 9-0.



D  
Locked out of center position.  
For functions 1-0 and 6-0.



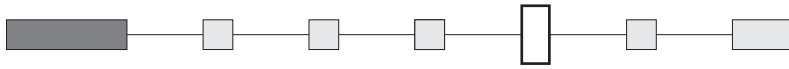
G  
Locked in keyway.  
For functions 1-0 and 6-0.

# 3500 series

High performance toggle switches - environmentally sealed

OPTIONS  
● ● ●

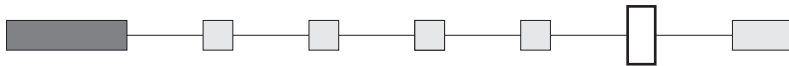
## AGENCY APPROVAL



- 0 None  
1 CECC

A

## MOUNTING ACCESSORIES



- 0 For NON-SEALED mounting (panel cut-out fig. 1, 2 or 3)  
2 hex nuts 14 mm (.551) across flats, 1 locking ring U121 or U12, 1 lockwasher U13  
Panel thickness : 5 mm (.196) max.
- 2 For SEALED mounting (panel cut-out fig. 2)  
2 hex nuts 14 mm (.551) across flats and 1 sealing washer U60  
Panel thickness : 4 mm (.157) max.

**Special hardware** : black cap nut U129. Order separately. See section I.

### PANEL CUT-OUT

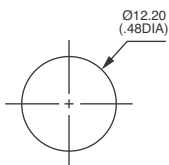


Figure 1

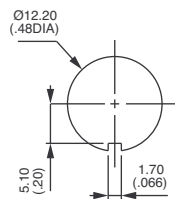


Figure 2

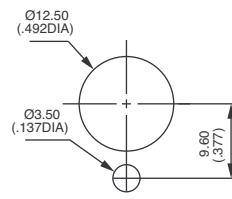
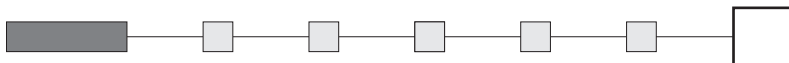


Figure 3

## LOCKING LEVER SPECIAL FINISH



- (blank) None  
P5 Painted yellow  
A6 Anodized red

Order with lever finish type C.  
Other colours on request.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem:](#)

|                             |                             |                             |                             |                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <a href="#">3531001ND02</a> | <a href="#">3531001N000</a> | <a href="#">3531021N000</a> | <a href="#">3536001N000</a> | <a href="#">3536021N000</a> | <a href="#">3537001N000</a> | <a href="#">3537001N002</a> |
| <a href="#">3537021N000</a> | <a href="#">3538001N000</a> | <a href="#">3538021N000</a> | <a href="#">3539001N000</a> | <a href="#">3539021N000</a> | <a href="#">3541001N000</a> | <a href="#">3541021N000</a> |
| <a href="#">3546001N000</a> | <a href="#">3547001N000</a> | <a href="#">3547021N000</a> | <a href="#">3548001N000</a> | <a href="#">3549001N000</a> | <a href="#">3531001G000</a> | <a href="#">3531001GD00</a> |
| <a href="#">3531001ND00</a> | <a href="#">3531003N000</a> | <a href="#">3531033G000</a> | <a href="#">3533001N000</a> | <a href="#">3533001N010</a> | <a href="#">3533003N000</a> | <a href="#">3533003N012</a> |
| <a href="#">3535001N000</a> | <a href="#">3536001ND00</a> | <a href="#">3537001N012</a> | <a href="#">3537003N000</a> | <a href="#">3539003N000</a> | <a href="#">3539005N000</a> | <a href="#">3541001N002</a> |
| <a href="#">3541003N000</a> | <a href="#">3541031N010</a> | <a href="#">3544133G000</a> | <a href="#">3544301N000</a> | <a href="#">3545001B010</a> | <a href="#">3545001N000</a> | <a href="#">3546001B010</a> |
| <a href="#">3546001G000</a> | <a href="#">3546001ND10</a> | <a href="#">3546026GD00</a> | <a href="#">3546033G000</a> | <a href="#">3547001B010</a> | <a href="#">3547001N002</a> | <a href="#">3547022G000</a> |
| <a href="#">3547031N002</a> | <a href="#">3548001N010</a> | <a href="#">3549001B010</a> | <a href="#">3549003N000</a> | <a href="#">3546001G012</a> | <a href="#">3544501N002</a> |                             |