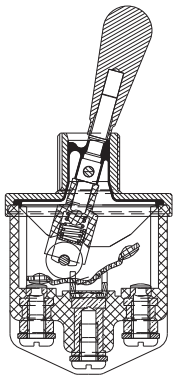
3500 series

High performance toggle switches - environmentally sealed

Distinctive features and specifications

UG1006-A





- **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		
	Alternate current	Direct Current	According to CECC 96201-004
ON-OFF and ON-ON	6.000 cycles, T65°C 20A 125VAC, 3/4HP 15A 250VAC, 1-1/2HP T5, 115VAC, 50/400Hz	10.000 cycles, T20°C 15A 28VDC resistive 15A 28VDC inductive 5A 28VDC lamp load	10.000 cycles 16A 250VAC 15A 32VDC
ON OFF ON	6.000 cycles, T65°C 18A 125VAC, 1/2HP 10A 250VAC, 1/2HP T2, 115VAC, 50/400Hz	10.000 cycles, T20°C 15A 28VDC resistive 15A 28VDC inductive 5A 28VDC lamp load	
OTHER FUNCTIONS	6.000 cycles, T65°C 15A 125VAC 10A 250VAC T2, 115VAC, 50/400Hz	10.000 cycles, T20°C 15A 28VDC resistive 10A 28VDC inductive 3A 28VDC lamp load	

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

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.

3500 series

High performance toggle switches - environmentally sealed

Overview

MODEL STRUCTURE

35 | | | |

SERIES

Number of poles

3	Single pole
4	Double pole

Electrical functions

1-0	ON	-	OFF
2-0	ON	-	m.OFF
3-0	OFF	-	MOM
4-1	ON	[3]ON[4]	ON▲
4-2	ON	[3]ON[4]	MOM▲
4-3	MOM	[3]ON[4]	MOM▲
4-4	ON	[1]ON[6]	ON▲
4-5	ON	[1]ON[6]	MOM▲

Electrical functions (continued)

4-6	MOM	[1]ON[6]	MOM▲
5-0	ON	-	MOM
6-0	ON	-	ON
7-0	MOM	OFF	MOM
8-0	ON	OFF	MOM
9-0	ON	OFF	ON

▲ Function 4 : double pole only

Terminals

0	Screw
2	Solder lug/quick-connect
3	Normalized quick-connect
4	Screw + clamp

OPTIONS

Lever styles

1	Standard, length 17,5 mm (.688) or locking, length 20 mm (.787)
2	Length 30 mm (1.181)
3	Flatted, length 24 mm (.944)
4	Length 40 mm (1,574)
5	Length 50 mm (1.968)
6	Locking, length 25,4 mm (1.000)

Lever finish

N	Bright nickel
B	Satin chrome
G*	Matt black
F*	Matt black with fluorescent tip (lever type 1 only)
C	Painted or anodized

* Matt black finish on bushing too.

Lever locking styles

0	No locking
A	Locked in 3 positions
D	Locked out of center position
G	Locked in keyway side

See drawings on the following pages.

Agency approval

0	None
1	CECC

Accessories

0	2 hex nuts, 1 locking ring and 1 lockwasher
2	2 hex nuts and 1 sealing washer

Locking lever special finish

(blank)	None
P5	Painted yellow
A6	Anodized red

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

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 bracketted numbers.

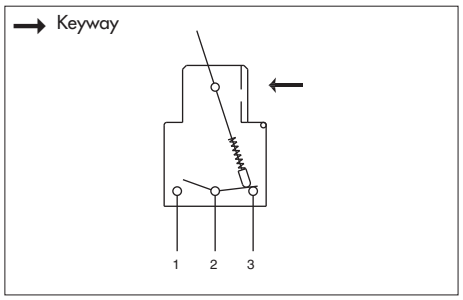
Security caps are available to prevent inadvertent lever operation. They are presented in section I.

Packaging unit : 25 pieces

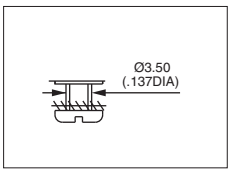
3500 series

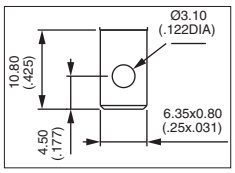
High performance toggle switches - environmentally sealed

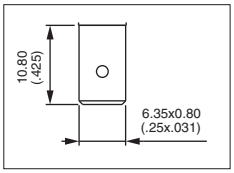
MODEL STRUCTURE



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

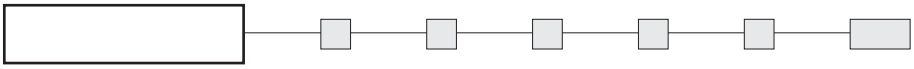






A

MODEL STRUCTURE



Shown with standard lever

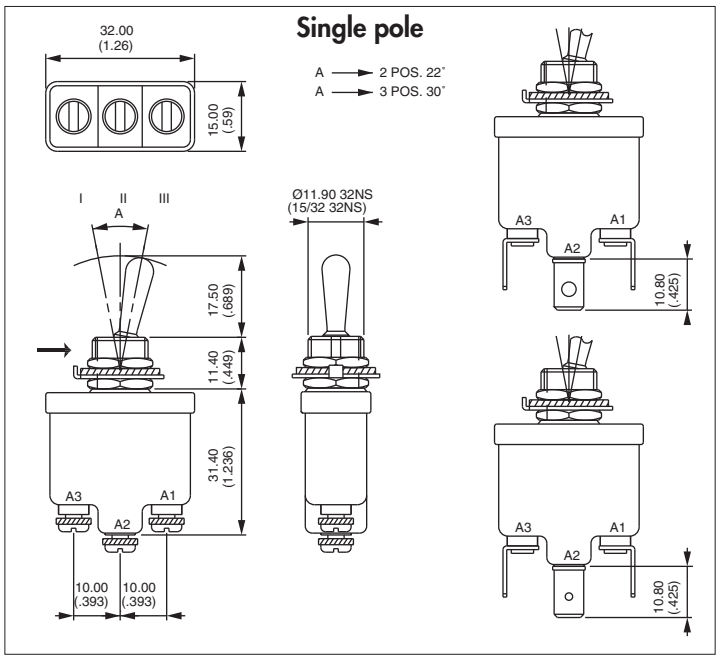


FUNCTIONS			BASIC PART NUMBER					
III	II	I	Screw terminals		Solder lugs and quick-connect term.		Normalized quick-connect terminals	
A2-A3	* A3-B5	A1-A2						
B5-B6	** A1-B5	B5-B4	Single pole	Double pole	Single pole	Double pole	Single pole	Double pole
ON	-	OFF	3531-00	3541-00	3531-02	3541-02	3531-03	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

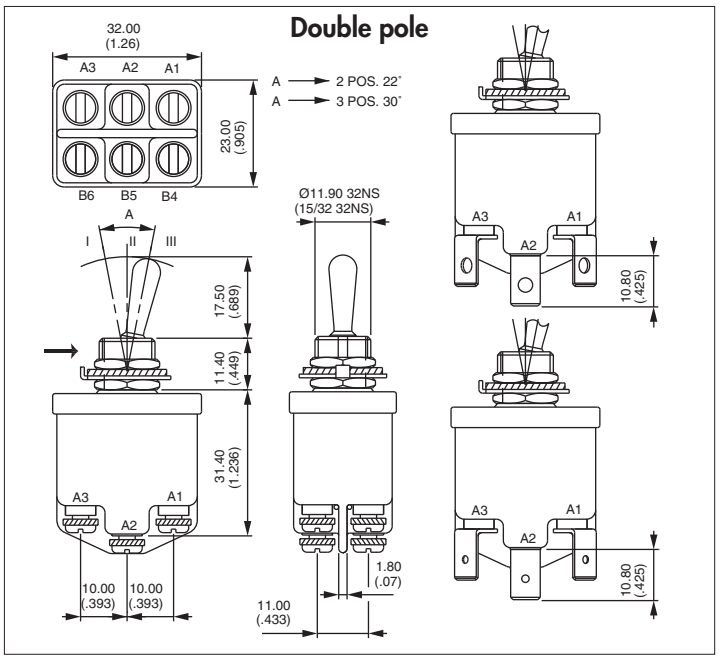
Keyway

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

Single pole



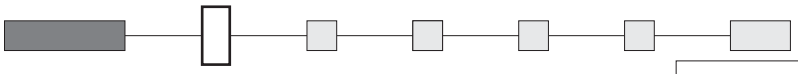
Double pole

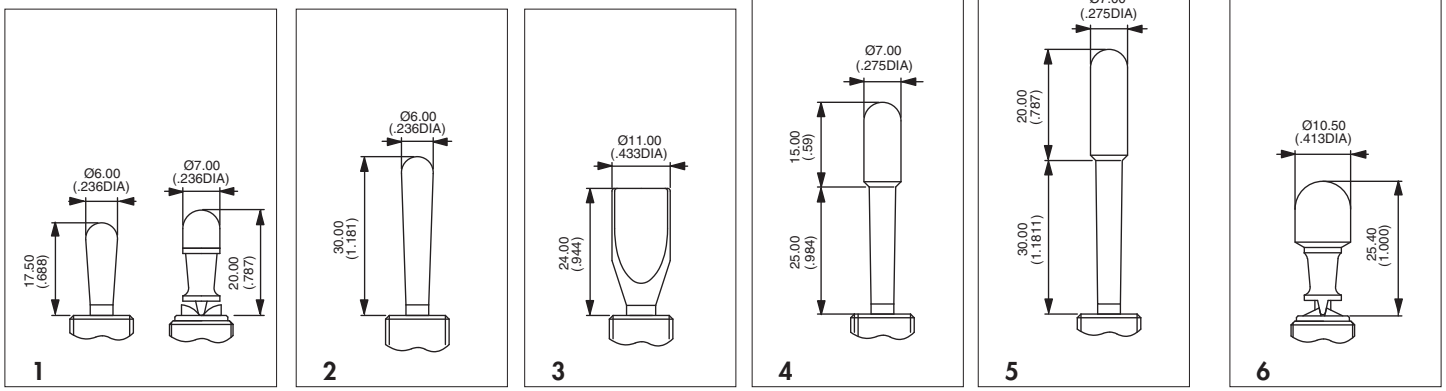


3500 series

High performance toggle switches - environmentally sealed

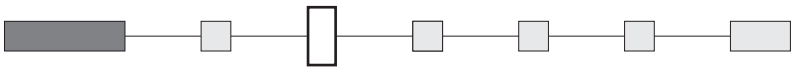
LEVER STYLES





Standard

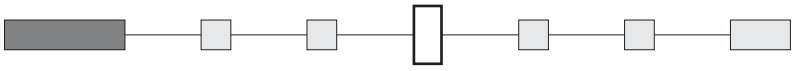
LEVER FINISH



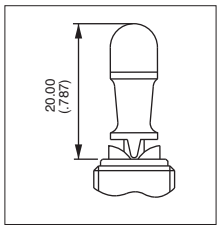
N	Bright nickel
B	Satin chrome
G*	Matt black
F*	Matt black with fluorescent tip (available with lever type 1 only)
C	Painted or anodized (for locking lever only)

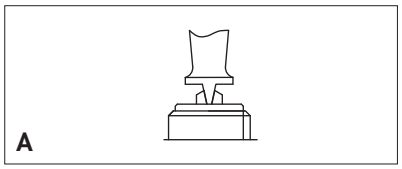
* Matt black finish on bushing too.

LOCKING LEVER STYLES



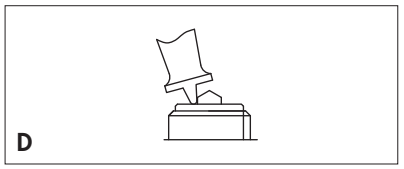
0 No locking





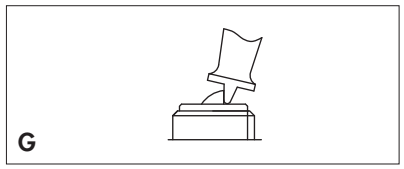
A

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



D

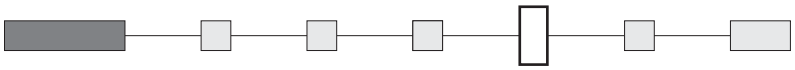
Locked out of center position.
For functions 1-0 and 6-0.



G

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

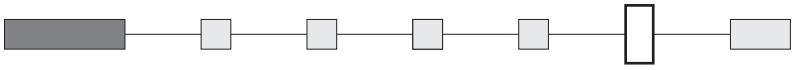
AGENCY APPROVAL



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

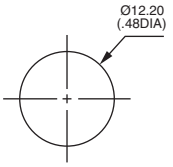


Figure 1

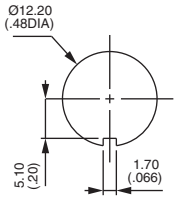


Figure 2

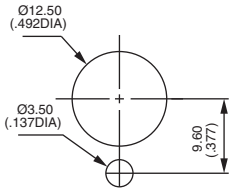
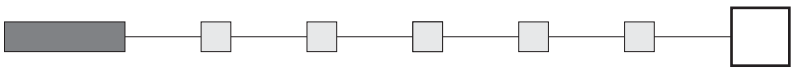


Figure 3

LOCKING LEVER SPECIAL FINISH



(blank) None
P5 Painted yellow
A6 Anodized red

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