

3500 series

High performance toggle switches •
environmentally sealed



DISTINCTIVE FEATURES

Completely sealed switches withstanding 0.1 bar pressure

Approved to European standards CECC 96000

Three types of terminals

Many lever styles available



ENVIRONMENTAL SPECIFICATIONS

- Front sealing to IP67 or IP69K by a silicone membrane (for sealed panel mounting, add washer U60).
- Rear sealing to IP64 provided by moulded-in terminal inserts
- Operating temperature : -40 °C to + 85°C (-40 °F to +185 °F)
- Moisture resistance : 56 days



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 1 A 2 VDC
- 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 and ON-ON	10,000 cycles, T20 °C 15 A 28 VDC resistive 15 A 28 VDC inductive 5 A 28 VDC lamp
ON OFF ON	10,000 cycles, T20 °C 15 A 28 VDC resistive 15 A 28 VDC inductive 5 A 28 VDC lamp
OTHER FUNCTIONS	10,000 cycles, T20 °C 15 A 28 VDC resistive 10 A 28 VDC inductive 3 A 28 VDC lamp

The company reserves the right to change specifications without notice.



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GENERAL SPECIFICATIONS

- Mechanical life : 40,000 cycles
- Torque : 2 Nm (1.47 Ft.lb) max. applied to nut
- Panel thickness :
For NON-SEALED mounting (panel cut-out fig. 1, 2 or 3) : 5 mm (.196) max.
For SEALED mounting (panel cut-out fig. 2) : 4 mm (.157) max.



MATERIALS

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

AGENCY APPROVAL



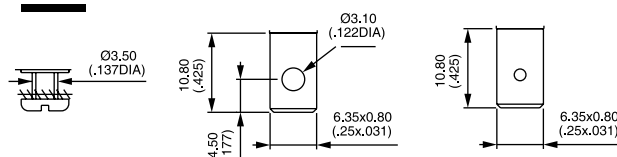
CECC 96201-004

Availability : consult factory for details of approved models.

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

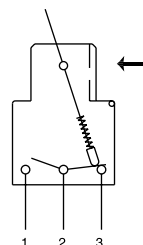


TERMINALS



ELECTRICAL FUNCTIONS

→ KEYWAY



PANEL CUT-OUT

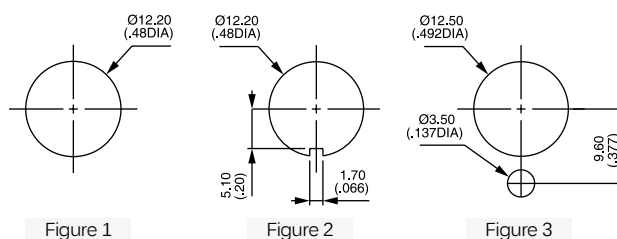


Figure 1

Figure 2

Figure 3

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BUILD YOUR PART NUMBER

BASIC PART NUMBER

SERIES		NUMBER OF POLES		ELECTRICAL FUNCTIONS				TERMINALS			
35		3	Single pole	1-0	ON	-	OFF	4-6	MOM ¹ ON ⁶ MOM ▲	0	Screw
		4	Double pole	2-0	ON	-	m.OFF	5-0	ON - MOM	2	Solder lug/ quick-connect
				3-0	OFF	-	MOM	6-0	ON - ON	3	Normalized quick-connect
				4-1	ON	³ ON ⁴	ON ▲	7-0	MOM OFF MOM	4	Screw + clamp
				4-2	ON	³ ON ⁴	MOM ▲	8-0	ON OFF MOM		
				4-3	MOM	³ ON ⁴	MOM ▲	9-0	ON OFF ON		
				4-4	ON	¹ ON ⁶	ON ▲	▲ Function 4 : double pole only			
				4-5	ON	¹ ON ⁶	MOM ▲				

OPTIONS

LEVER FINISH	AGENCY APPROVAL	LOCKING LEVER SPECIAL FINISH
N Bright nickel	0 None	(blank) None
B Satin chrome	1 CECC	P5 Painted yellow
G* Black		A6 Anodized red
F* Black with fluorescent tip (lever type 1 only)		Order with lever finish type C. Other colors : on request.
C Painted or anodized		
*Black finish on bushing too.		
LEVER STYLES	LEVER LOCKING STYLES	ACCESSORIES
1 Standard, length 17.5 mm (.688) or locking, length 20 mm (.787)	0 No locking	0 2 hex nuts, 1 locking ring and 1 lockwasher (non-sealed mounting)
2 Length 30 mm (1.181)	A Locked in 3 positions	2 2 hex nuts and 1 sealing washer (sealed mounting)
3 Flatted, length 24 mm (.944)	D Locked out of center position	
4 Length 40 mm (1.574)	G Locked in keyway side	
5 Length 50 mm (1.968)	See other lockings and drawings on the following pages	
6 Locking, length 25.4 mm (1.000)		



ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- ⚠ **Notice** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.
- 🔒 **Switch guards** are available to prevent inadvertent lever operation. See "Switch Guards" section of website.
- 🔧 **Mounting accessories** : see above and on the following pages.

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SCREW TERMINALS SINGLE POLE



	Angle of throw (A)	III A2-A3	II A2-A3	I A1-A2
3531-00	22°	ON	-	OFF
3532-00	22°	ON	-	m.OFF
3533-00	22°	OFF	-	MOM
3535-00	22°	ON	-	MOM
3536-00	22°	ON	-	ON
3537-00	22°	MOM	OFF	MOM
3538-00	30°	ON	OFF	MOM
3539-00	30°	ON	OFF	ON

SCREW TERMINALS DOUBLE POLE



	Angle of throw (A)	III A2-A3 B5-B6	II *A3-B5 **A1-B5	I A1-A2 B5-B4
3541-00	22°	ON	-	OFF
3544-10	22°	ON	ON*	ON
3544-20	22°	ON	ON*	MOM
3544-30	22°	MOM	ON*	MOM
3545-00	22°	ON	-	MOM
3546-00	22°	ON	-	ON
3547-00	22°	MOM	OFF	MOM
3548-00	30°	ON	OFF	MOM
3549-00	30°	ON	OFF	ON

SOLDER LUG/QUICK-CONNECT TERMINALS SINGLE POLE



	Angle of throw (A)	III A2-A3	II A2-A3	I A1-A2
3531-02	22°	ON	-	OFF
3532-02	22°	ON	-	m.OFF
3533-02	22°	OFF	-	MOM
3535-02	22°	ON	-	MOM
3536-02	22°	ON	-	ON
3537-02	22°	MOM	OFF	MOM
3538-02	30°	ON	OFF	MOM
3539-02	30°	ON	OFF	ON

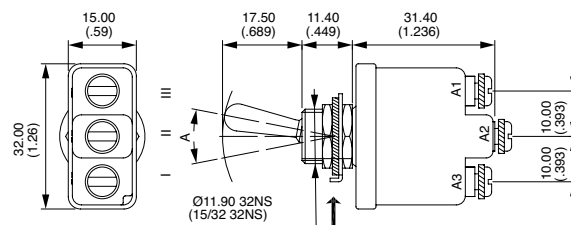
SOLDER LUG/QUICK-CONNECT TERMINALS DOUBLE POLE



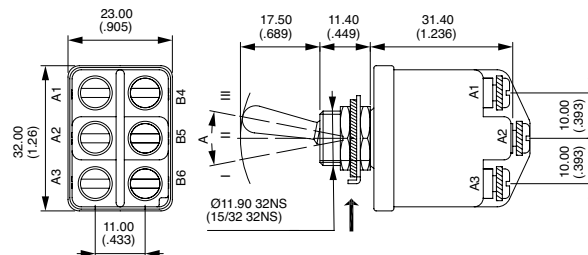
	Angle of throw (A)	III A2-A3 B5-B6	II *A3-B5 **A1-B5	I A1-A2 B5-B4
3541-02	22°	ON	-	OFF
3544-12	22°	ON	ON*	ON
3544-22	22°	ON	ON*	MOM
3544-32	22°	MOM	ON*	MOM
3545-02	22°	ON	-	MOM
3546-02	22°	ON	-	ON
3547-02	22°	MOM	OFF	MOM
3548-02	30°	ON	OFF	MOM
3549-02	30°	ON	OFF	ON

→ KEYWAY

Shown with standard lever

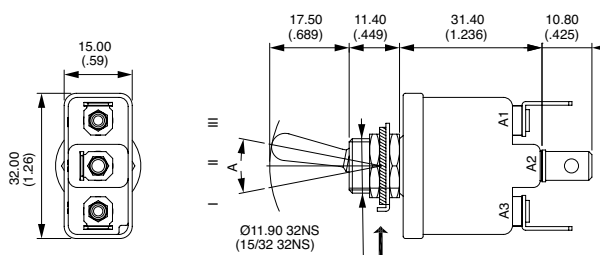


→ KEYWAY

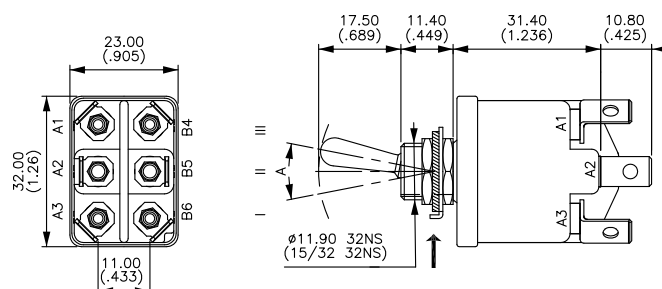


Also available in functions ON-m.OFF and OFF-MOM.

→ KEYWAY



→ KEYWAY



Also available in functions ON-m.OFF and OFF-MOM.
*and** : A2-B4 and A2-B6 = jumper to be wired by the user.

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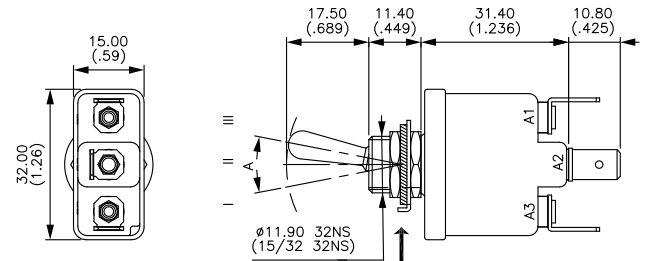
NORMALIZED QUICK-CONNECT TERMINALS SINGLE POLE



	Angle of throw (A)	III A2-A3	II	I A1-A2
3531-03	22°	ON	-	OFF
3532-03	22°	ON	-	m.OFF
3533-03	22°	OFF	-	MOM
3535-03	22°	ON	-	MOM
3536-03	22°	ON	-	ON
3537-03	22°	MOM	OFF	MOM
3538-03	30°	ON	OFF	MOM
3539-03	30°	ON	OFF	ON

→ KEYWAY

Shown with standard lever

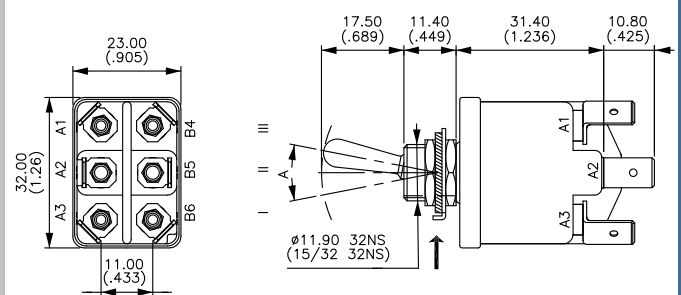


NORMALIZED QUICK-CONNECT TERMINALS DOUBLE POLE



	Angle of throw (A)	III A2-A3 B5-B6	II *A3-B5 **A1-B5	I A1-A2 B5-B4
3541-03	22°	ON	-	OFF
3544-13	22°	ON	ON*	ON
3544-23	22°	ON	ON*	MOM
3544-33	22°	MOM	ON*	MOM
3545-03	22°	ON	-	MOM
3546-03	22°	ON	-	ON
3547-03	22°	MOM	OFF	MOM
3548-03	30°	ON	OFF	MOM
3549-03	30°	ON	OFF	ON

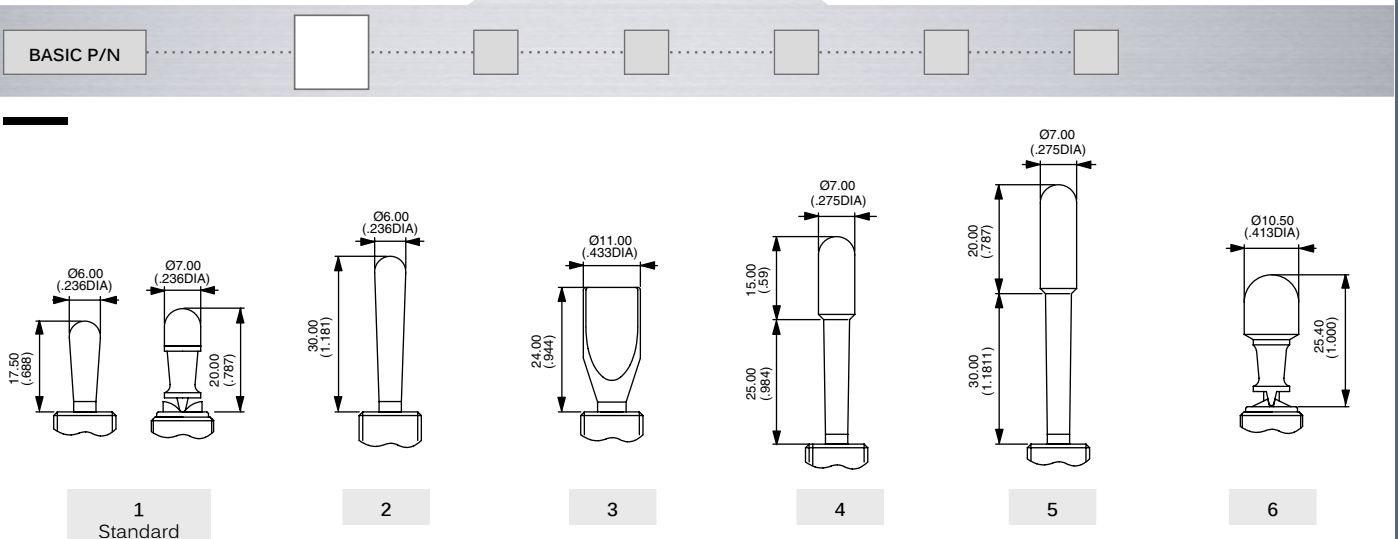
→ KEYWAY



Also available in functions ON-m.OFF and OFF-MOM.

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

LEVER STYLES



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LEVER FINISH

BASIC P/N

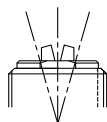
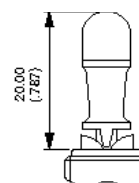
- N Bright nickel
- B Satin chrome
- G* Black
- F* Black with fluorescent tip (available with lever type 1 only)
- C Painted or anodized (for locking lever only)

* Black finish on bushing too.

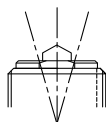
LOCKING LEVER STYLES

BASIC P/N

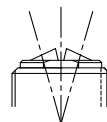
- O No locking
- A Locked in 3 positions. For functions 4-1, 4-4 and 9-0.
- D Locked out of center position. For functions 1-0 and 6-0.
- G Locked in keyway. For functions 1-0 and 6-0.



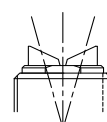
A
4-1 / 4-4 / 9-0
Locked in 3 positions



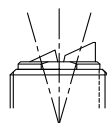
D
1-0 / 6-0
Locked out of center position



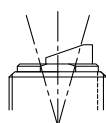
E
4-1 / 4-4 / 9-0
Locked in center position



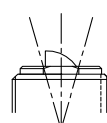
E
4-3 / 4-6 / 7-0
Locked in center position



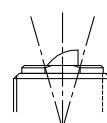
E
4-2 / 4-5 / 8-0
Locked in center position



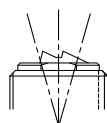
F
2-0 / 3-0 / 5-0
Locked in side opposite keyway



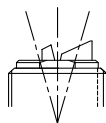
F
1-0 / 6-0
Locked in side opposite keyway



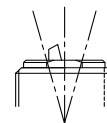
G
1-0 / 6-0
Locked in keyway side



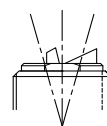
H
9-0
Locked out of center and keyway side



K
4-2 / 4-5 / 8-0
Locked in center and side opposite keyway



M
4-1 / 4-4 / 9-0
Locked out of and into side opposite keyway

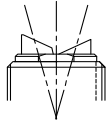


M
4-2 / 4-5 / 8-0
Locked out of and into side opposite keyway

More locking lever style drawings on page 7

3500 series

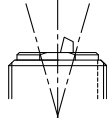
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N

4-3 / 4-6 / 7-0

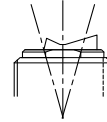
Locked out of side opposite



P

4-1 / 4-4 / 9-0

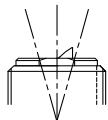
Locked out of and into keyway side



R

8-0

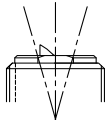
Locked in side opposite keyway



T

4-1 / 4-4 / 9-0

Locked in keyway side



U

4-1 / 4-4 / 9-0

Locked in side opposite keyway

AGENCY APPROVAL

BASIC P/N



- 0 None
- 1 CECC

MOUNTING ACCESSORIES

BASIC P/N



- 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 "Hardware" section of website.

LOCKING LEVER SPECIAL FINISH

BASIC P/N



- (blank) None
- P5 Painted yellow
- A6 Anodized red

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