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

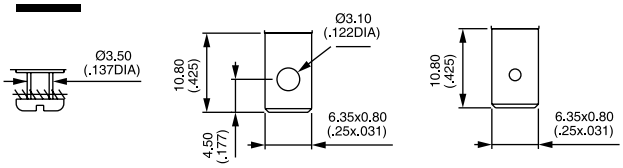
- Case : mineral filled polyester UL94-V0
- Bushing and cover : zamac
- Actuator : brass, nickel or chrome plated, or anodized aluminum
- Contacts : silver alloy

AGENCY APPROVAL

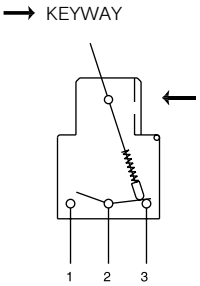
CECC 96201-004

Availability : consult factory for details of approved models.
Marking : to order switches marked CECC, complete appropriate box of ordering format.

TERMINALS



ELECTRICAL FUNCTIONS



PANEL CUT-OUT

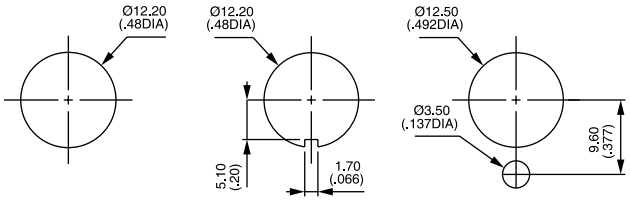


Figure 1 Figure 2 Figure 3

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BUILD YOUR PART NUMBER

BASIC PART NUMBER

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 ▲

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*	Black
F*	Black with fluorescent tip (lever type 1 only)
C	Painted or anodized

*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 other lockings and drawings on the following pages

AGENCY APPROVAL

0	None
1	CECC

ACCESSORIES

0	2 hex nuts, 1 locking ring and 1 lockwasher (non-sealed mounting)
2	2 hex nuts and 1 sealing washer (sealed mounting)

LOCKING LEVER SPECIAL FINISH

(blank)	None
P5	Painted yellow
A6	Anodized red

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

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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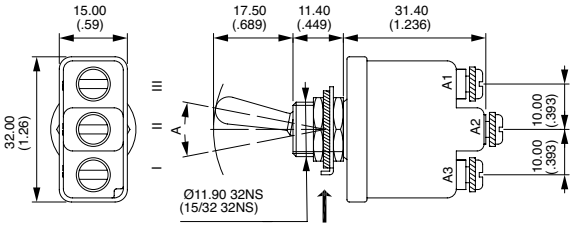
SCREW TERMINALS SINGLE POLE



	Angle of throw (A)	III A2-A3	II	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

→ KEYWAY

Shown with standard lever

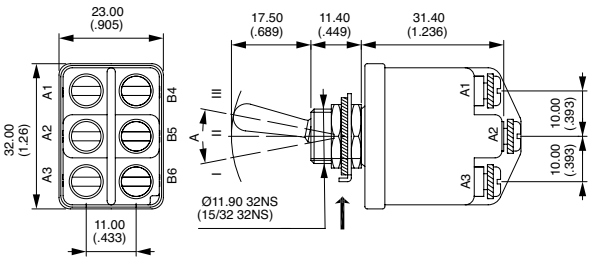


SCREW TERMINALS DOUBLE POLE



	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

→ KEYWAY



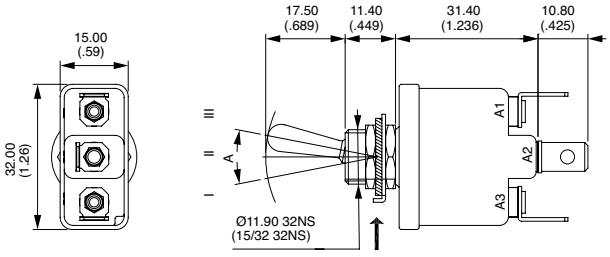
Also available in functions ON-m.OFF and OFF-MOM.

SOLDER LUG/QUICK-CONNECT TERMINALS SINGLE POLE



	Angle of throw (A)	III A2-A3	II	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

→ KEYWAY

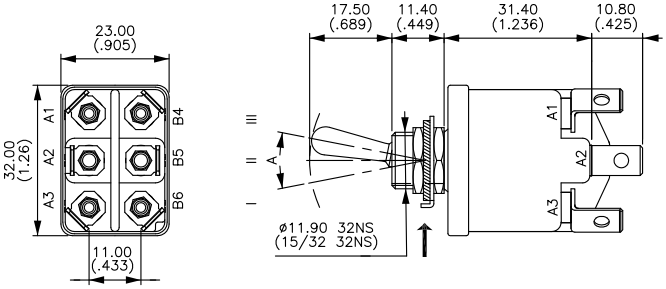


SOLDER LUG/QUICK-CONNECT TERMINALS DOUBLE POLE



	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



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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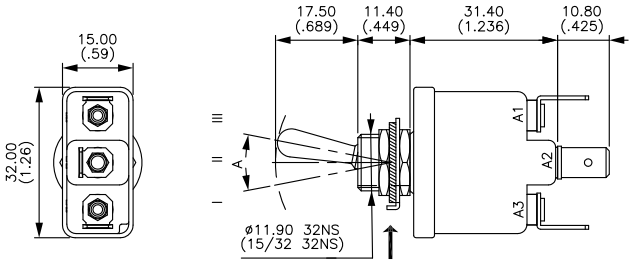
NORMALIZED QUICK-CONNECT TERMINALS SINGLE POLE



	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

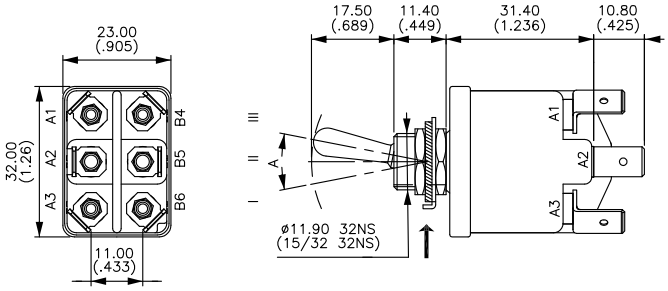


NORMALIZED QUICK-CONNECT TERMINALS DOUBLE POLE



	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

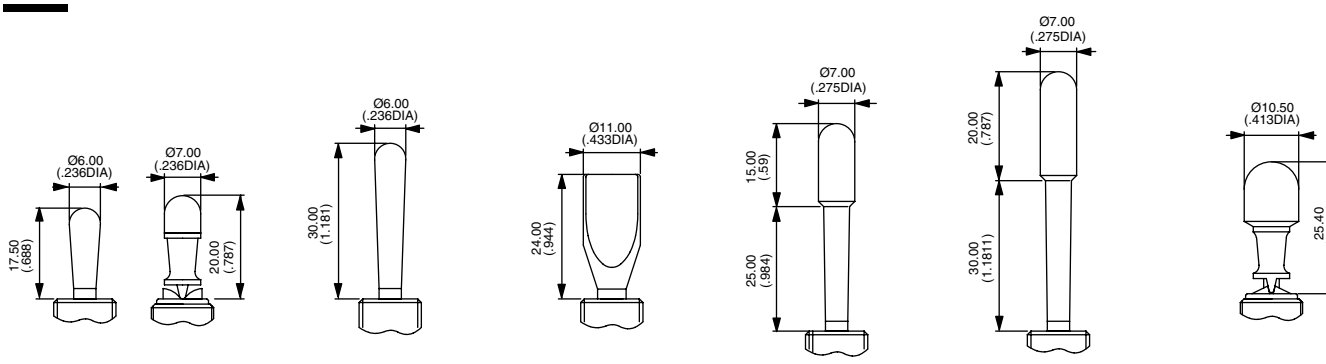
→ KEYWAY



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

BASIC P/N



1 Standard	2	3	4	5	6

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LEVER FINISH

BASIC P/N

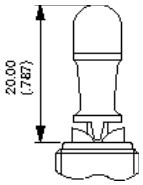
N	Bright nickel
B	Satin chrome
G*	Black
F*	Black with fluorescent tip (available with lever type 1 only)
C	Painted or anodized (for locking lever only)

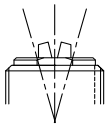
* Black finish on bushing too.

LOCKING LEVER STYLES

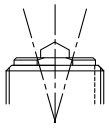
BASIC P/N

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.

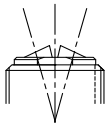




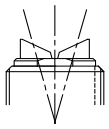
A
4-1 / 4-4 / 9-0
Locked in 3 positions



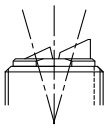
D
1-0 / 6-0
Locked out of center position



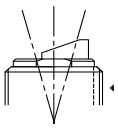
E
4-1 / 4-4 / 9-0
Locked in center position



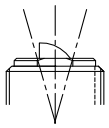
E
4-3 / 4-6 / 7-0
Locked in center position



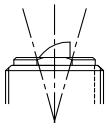
E
4-2 / 4-5 / 8-0
Locked in center position



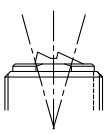
F
2-0 / 3-0 / 5-0
Locked in side opposite keyway



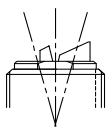
F
1-0 / 6-0
Locked in side opposite keyway



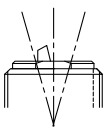
G
1-0 / 6-0
Locked in keyway side



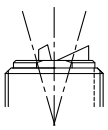
H
9-0
Locked out of center and keyway side



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



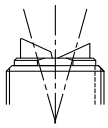
M
4-2 / 4-5 / 8-0
Locked out of and into side opposite keyway

More locking lever style drawings on page 7

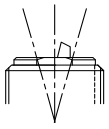
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3500 series

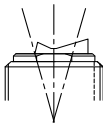
High performance toggle switches • environmentally sealed



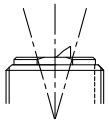
N
4-3 / 4-6 / 7-0
Locked out of side opposite



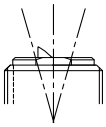
P
4-1 / 4-4 / 9-0
Locked out of and into keyway side



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	Order with lever finish type C.
P5	Painted yellow	Other colors on request.
A6	Anodized red	

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