

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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5W.3500.171.1

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 $\text{m}\Omega$ max. at 1 A 2 VDC
- Insulation resistance : 1,000 M Ω
- 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

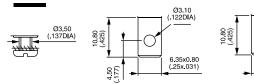


CECC 96201-004

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

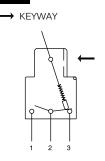


TERMINALS



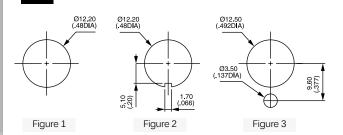


ELECTRICAL FUNCTIONS





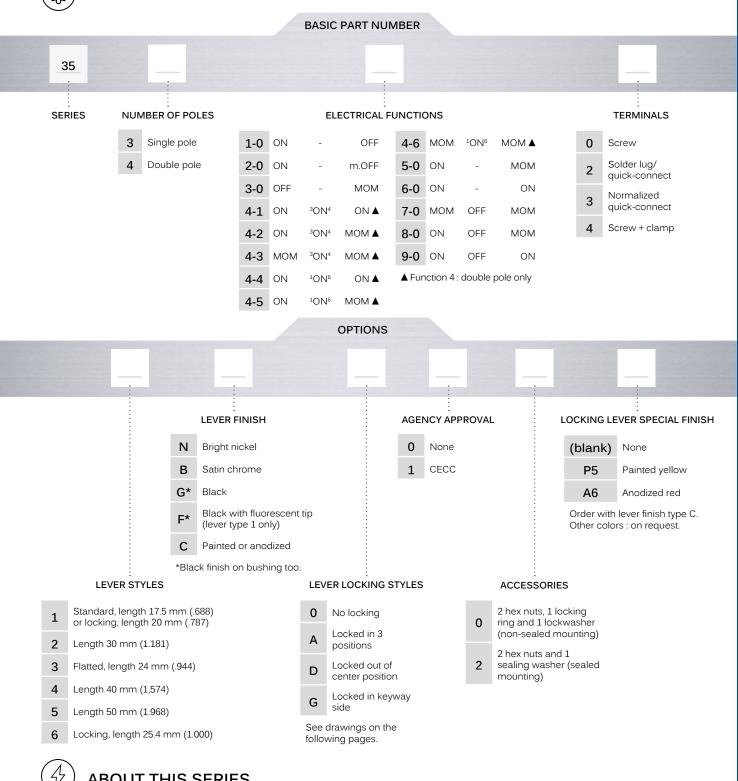
PANEL CUT-OUT



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BUILD YOUR PART NUMBER





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.
- (\Diamond) 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	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)	A2-A3 B5-B6	*A3-B5 **A1-B5	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	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

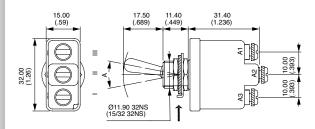
SOLDER LUG/QUICK-CONNECT TERMINALS DOUBLE POLE



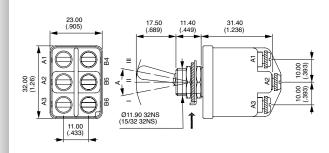
_	E	Angle of throw (A)	III A2-A3 B5-B6	II *A3-B5 **A1-B5	I A1-A2 B5-B4
	3541-02	22°	ON	-	OFF
	3544-12	22°	ON	ON^*	ON
	3544-22	22°	ON	ON^*	MOM
ì	3544-32	22°	MOM	ON^*	MOM
	3545-02	22°	ON	-	MOM
	3546-02	22°	ON	-	ON
	3547-02	22°	MOM	OFF	MOM
	3548-02	30°	ON	OFF	MOM
	3549-02	30°	ON	OFF	ON

\longrightarrow KEYWAY

Shown with standard lever

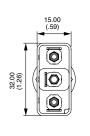


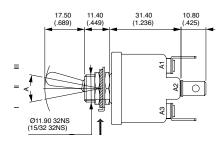
→ KEYWAY



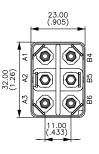
Also available in functions ON-m.OFF and OFF-MOM.

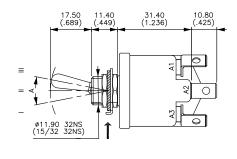
→ KEYWAY





→ KEYWAY





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

APEM

3500 series

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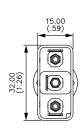
NORMALIZED QUICK-CONNECT TERMINALS SINGLE POLE

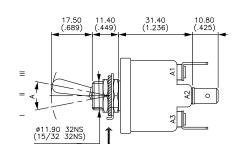


	Angle of throw (A)	III A2-A3	II	I A1-A2
3531-03	22°	ON	-	OFF
3532-03	22°	ON	-	m.OFF
3533-03	22°	OFF	-	MOM
3535-03	22°	ON	-	MOM
3536-03	22°	ON	-	ON
3537-03	22°	MOM	OFF	MOM
3538-03	30°	ON	OFF	MOM
3539-03	30°	ON	OFF	ON

→ KEYWAY

Shown with standard lever



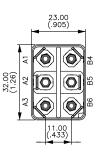


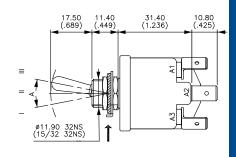
NORMALIZED QUICK-CONNECT TERMINALS



	•				
E		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
ł	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



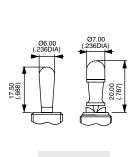




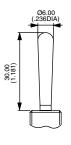
Also available in functions ON-m.OFF and OFF-MOM. *and**: A2-B4 and A2-B6 = jumper to be wired by the user.

LEVER STYLES

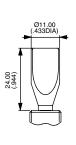
BASIC P/N

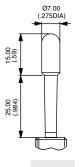


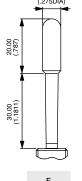
Standard



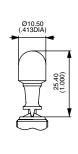
2







5



6

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LEVER FINISH
BASIC P/N
 N Bright nickel * Black finish on bushing too. B Satin chrome G* Black F* Black with fluorescent tip (available with lever type 1 only) C Painted or anodized (for locking lever only)
LOCKING LEVER STYLES
BASIC P/N
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 D G
AGENCY APPROVAL
BASIC P/N
0 None 1 CECC MOUNTING ACCESSORIES
BASIC P/N
 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. 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