511.100.2511

11000 series

Professional toggle switches • threaded bushing Ø 6.35 mm



DISTINCTIVE FEATURES

CECC approved

Robust switches for high specification environments Toggle action on 2-position models for a smooth mechanical operation

Several front panel sealing options





ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load:
- silver contacts (A-AD2-X780): 4 A 30 VDC
- gold contacts (D): 100 mA 30 VDC
- Minimum load : AD2-X780-D contacts: 10 mA 50 mV, 10 µA 5 V min.
- Peak currents, refer to "Special options".
- Initial contact resistance: 10 m Ω max.
- Insulation resistance: 1,000 M Ω min. at 500 VDC
- Dielectric strength:
- 1,000 Vrms 50 Hz min. between terminals
- 2,000 Vrms 50 Hz min. between poles and between terminals and frame
- Contact bounce: 2 ms max.
- Electrical life at full load:

		Number of cycles	
Contacts	Max. current/voltage rating	2 positions	3 positions
Α	4 A 30 VDC	50,000	50,000
AD2 X780	4 A 30 VDC (Gold plating : 100mA 30VDC max.)	20,000	20,000
D	100 mA 30 VDC	80,000	50,000
	Low level or mechanical life	150,000	100,000



GENERAL SPECIFICATIONS

- Torque: 1.25 Nm (.92 Ft.lb) max. applied between the 2 nuts
- Standard panel thickness: 2.5 mm (.098) max.
- Operating temperature: -40 °C to +85 °C (-40 °F to +185 °F)

The company reserves the right to change specifications without notice.



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MATERIALS

- Case: diallylphthalate (DAP)
- · Actuator: brass, nickel plated
- Bushing: brass, nickel plated
- Housing: brass, nickel plated
- Contacts

A: silver

AD2: gold plated silver (2 microns)

X780: solid rivet - gold plated, silver/nickel alloy

D: solid gold rivet

X910: silver/nickel alloy (for peak currents,

see "Special options")

Terminal seal: epoxy

Note: AD2 and X780 contacts can be used for high level applications. In this case, the gold layer is considered only as a protection against oxidation during storage.

AGENCY APPROVALS

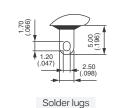


CECC 96201-005 CECC 96201-008

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



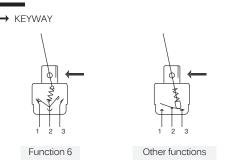
TERMINALS





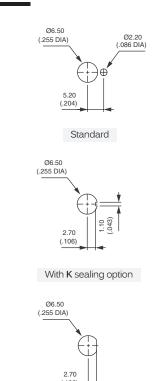


ELECTRICAL FUNCTIONS





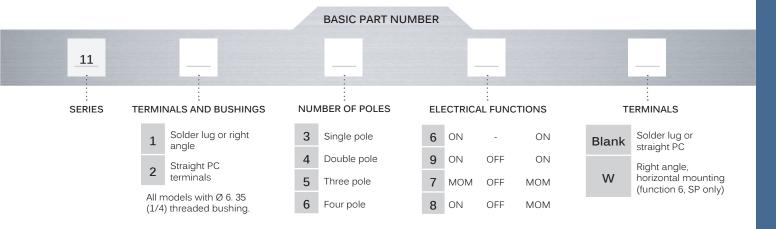
PANEL CUT-OUT

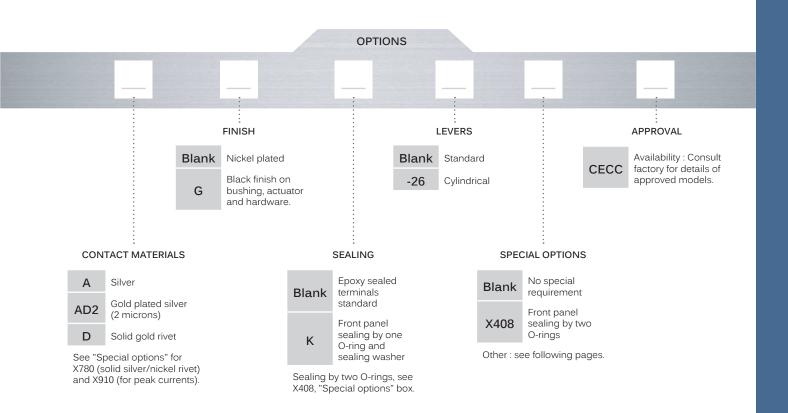


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BUILD YOUR PART NUMBER







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 www.apem.com for further information.
- (A) Sealing boots are available to protect the switches against dust and water. See "Sealing Boots" section of website.
- Mounting accessories: standard hardware supplied with all models: 2 hex nuts 8 (.314) across flats, 1 locking ring and 1 lockwasher. Standard and special hardware is presented in the "Hardware" section of website.

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SOLDER LUG TERMINALS - SINGLE POLE



1	II	III
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
ON	OFF	MOM
	ON MOM	ON - ON OFF MOM OFF

SOLDER LUG TERMINALS - DOUBLE POLE



BASIC P/N	I	П	III
11146	ON	-	ON
11149	ON	OFF	ON
11147	MOM	OFF	MOM
11148	ON	OFF	MOM

SOLDER LUG TERMINALS - THREE POLE

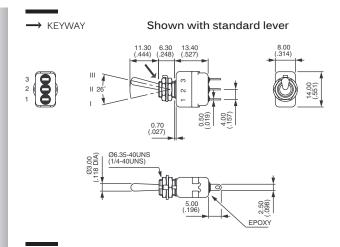


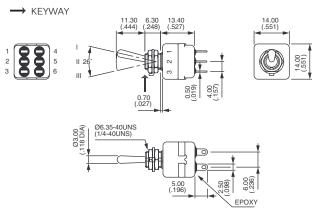
BASIC P/N	I	II	III
11156	ON	-	ON
11159	ON	OFF	ON
11157	MOM	OFF	MOM
11158	ON	OFF	MOM

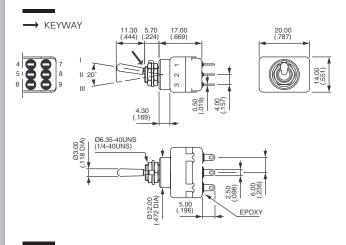
SOLDER LUG TERMINALS - FOUR POLE

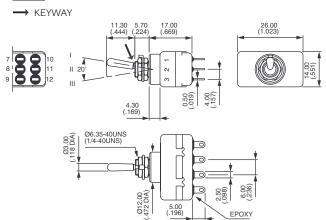


BASIC P/N	I	II	III
11166	ON	-	ON
11169	ON	OFF	ON
11167	MOM	OFF	MOM
11168	ON	OFF	MOM









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STRAIGHT PC TERMINALS - SINGLE POLE A



STRAIGHT PC TERMINALS - DOUBLE POLE A

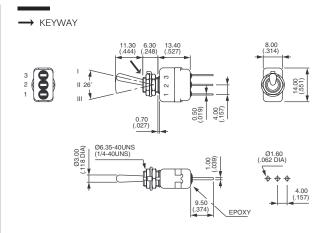


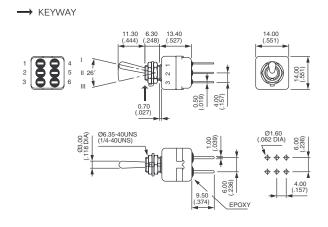
STRAIGHT PC TERMINALS - THREE POLE A

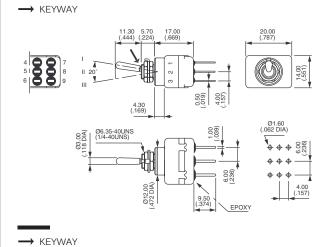


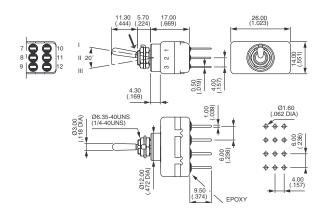
STRAIGHT PC TERMINALS - FOUR POLE A









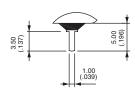


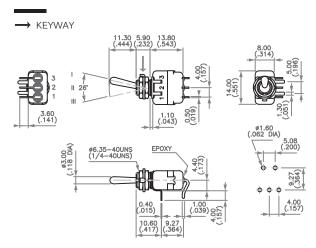
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RIGHT ANGLE TERMINALS - HORIZONTAL -SINGLE POLE



▲ 3.5 mm (.138) short terminals available on request for function 6, as well as for function 9, 7 and 8.





CONTACT MATERIALS

BASIC P/N

Α

Silver AD2 Silver, gold plated (2 micron)

Solid gold rivet D

See "Special options" for contacts X780 (solid silver/nickel rivet) and contacts X910 (for peak currents).

FINISH

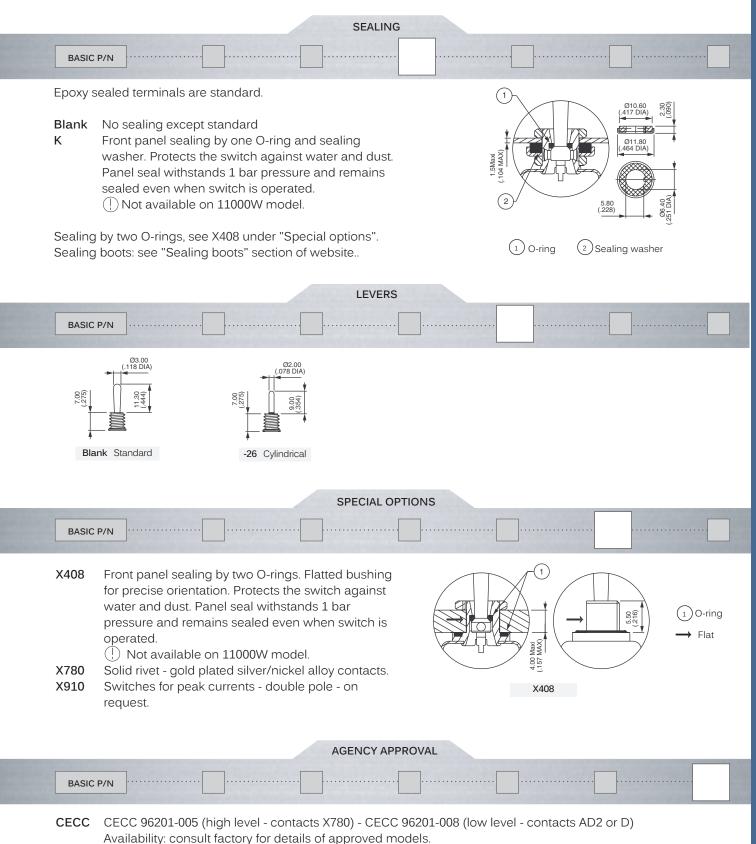
BASIC P/N

Blank Nickel plated

Black finish on bushing, lever and hardware G

Other finish, consult factory.

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Marking: to order switches marked CECC, complete above box with "CECC".

Blank No agency approval required.