Professional toggle switches - threaded bushing \emptyset 11,9 (15/32)

Specifications

Peak currents, refer to "Special options".

ELECTRICAL SPECIFICATIONS

Max. current/voltage rating with resistive load :

- silver contacts (A-AD2-X780) : 2A 250VAC - 4A 125VAC - 4A 30VDC

gold contacts (D): 200mA 250VAC - 400mA 125VAC

Minimum load: AD2-X780-D contacts: 10mA 50mV, 10µA 5V min.

• Initial contact resistance : $10 \text{ m}\Omega$ max.

• Insulation resistance : $1.000 \text{ M}\Omega$ 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 :

		Numb	Number of cycles	
Contacts	Max. current/voltage rating	2 positions	3 positions	
Α	2A 250VAC - 4A 125VAC - 4A 30VDC	50.000	50.000	
AD2 X780	2A 250VAC - 4A 125 VAC - 4A 30VDC (Gold plating : 100mA 30VDC max.)	20.000	20.000	
D	200mA 250VAC - 400mA 125VAC	80.000	50.000	
	Low level or mechanical life	150.000	100.000	

MATERIALS

- Case : diallylphthalate (DAP)
- Actuator : brass, chrome plated
- Bushing: brass, nickel plated
- Housing: brass, nickel plated
- Contacts A: silver

AD2: gold plated silver

(2 microns gold)

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.

Tin dipped terminals available, see "Special options".

GENERAL SPECIFICATIONS

- Torque:1,50 Nm (1.10 Ft.lb) max. applied between the 2 nuts
- Standard panel thickness: 4,5 mm (.177) max.
- Operating temperature : -40°C to +85°C

RELIABILITY - RUN-IN TEST

Upon request, each individual switch can be submitted to a low level run-in test of 50 or 250 cycles to ensure suitability for special applications requiring a very high level of reliability (military, space, etc.).

AGENCY APPROVALS



CECC 96201-005 CECC 96201-008

Designed to MIL specifications

Availability: consult factory for details of approved models.

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

ordering format.

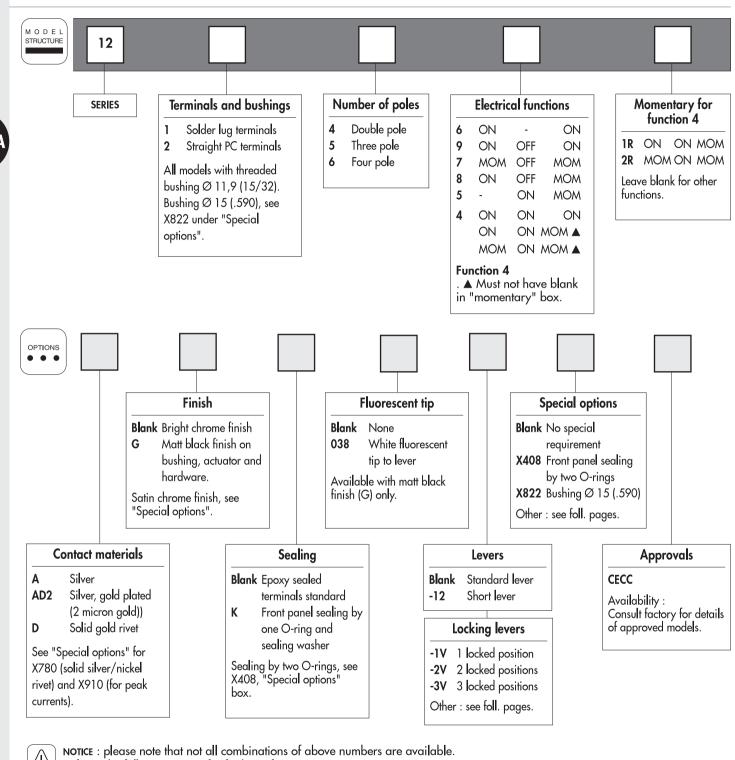
Dimensions: first dimensions are in mm while inches are shown as bracketted numbers.



Packaging unit: 2 pole models: 25 pieces - 3 & 4 pole models: 20 pieces.

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Overview 1





Refer to the following pages for further information.

ABOUT THIS SERIES

On the following pages, you will find successively:

- model structure of switches
- options in the same order as in above chart



Sealing boots are available to protect the switches against dust and water. They are presented in section H.



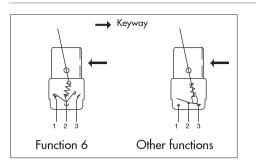
Mounting accessories: standard hardware supplied with all models: 2 hex nuts 14 (.551) across flats and 1 locking ring. Standard and special hardware available are presented in section I.

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



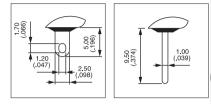
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Solder lug terminals : 12100



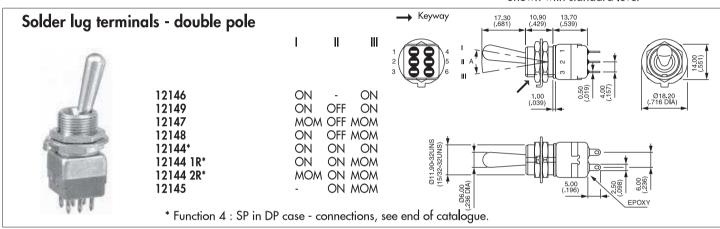
• Epoxy sealed terminals standard

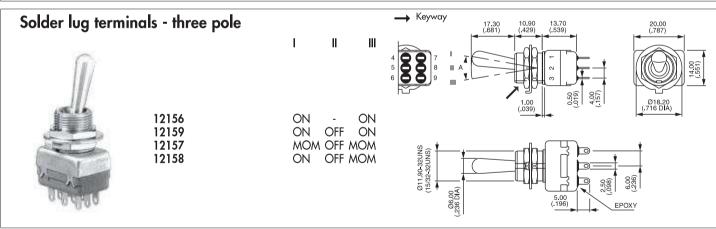
Typical angle of throw (A)			
Function 6	26°		
Functions 9, 7, 8, 4	20°		
Function 5	12°		

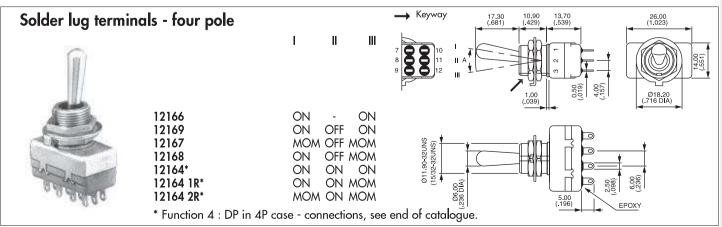




Shown with standard lever



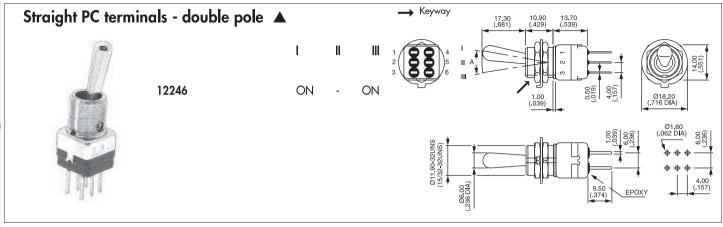


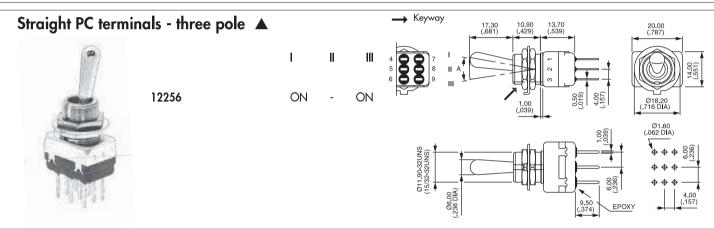


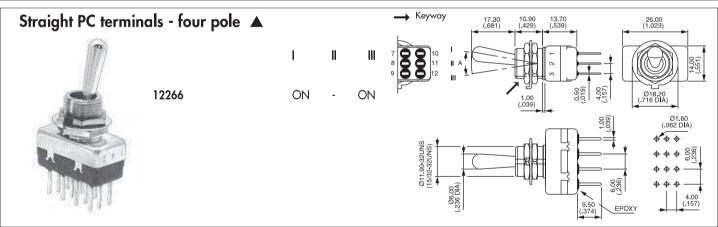


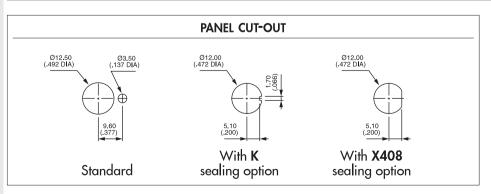
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Straight PC terminals: 12200

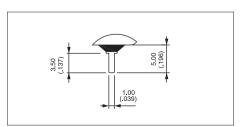








▲ 3,5 mm (.138) short terminals available for function 6, as well as for functions 9, 7, 8, 4 and 5. On request.





Professional toggle switches - threaded bushing \emptyset 11,9 (15/32)

CONTACT MATERIALS

AD2 Silver, gold plated (2 micron gold)

Solid gold rivet (except functions 4 and 5)

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

FINISH



Blank Bright chrome finish

Matt black finish on bushing, lever and hardware.

For satin chrome finish, see "Special options".

SEALING

Epoxy sealed terminals are standard.

Blank No sealing except standard.

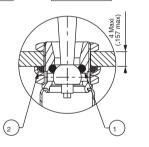
Front panel sealing by one O-ring and sealing washer. K

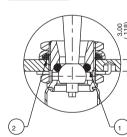
Protects the switch against water and dust.

Panel seal withstands 1 bar pressure and remains sealed even when switch is operated.

Sealing by two O-rings, see X408 under "Special options".

Sealing boots: see section H.





① O-ring

② Sealing washer

FLUORESCENT TIP



Blank None

038

White fluorescent tip.

Becomes luminous when submitted to ultra-violet rays.

Available with matt black finish (option G) only.



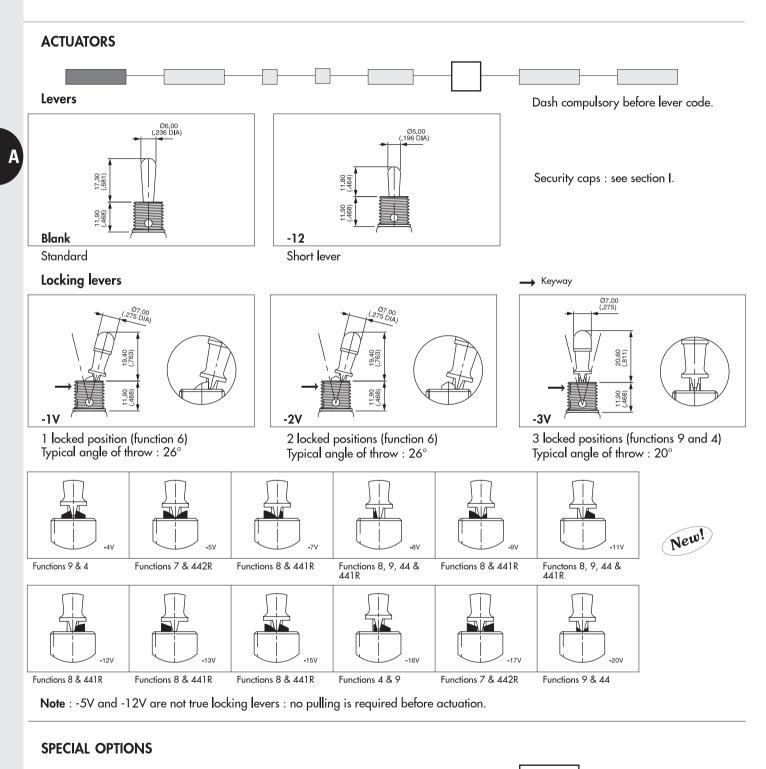
Locking lever

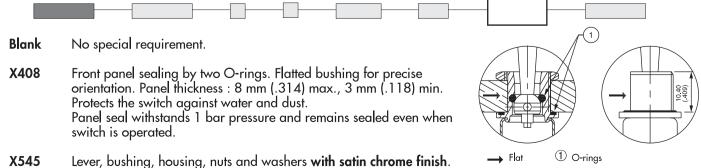






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A-76 全国销售电话: 4008-824-824 更多资料详情: WWW.SANPUM.COM



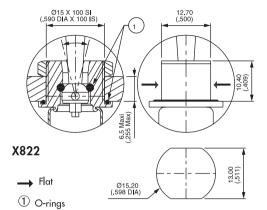
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SPECIAL OPTIONS (continued)

X822 Threaded bushing Ø 15 (.590), with double flat Not available with function 5 or locking levers.

Not available with function 5 or locking levers. Includes front panel sealing and X780 contact material.

X780 Solid rivet - gold plated silver/nickel alloy contacts Not available with function 5.



X910 Switches for peak currents

Peak current up to 80A (1 ms) 60VDC - double pole



12146 X910

ON - ON

- Contacts: solid rivet silver/nickel alloy (AgNi)
- Max. current/voltage rating:
 3/80A (1 ms) 60VDC 10.000 cycles
 2/30A 250VAC 10.000 cycles
- Further specifications and dimensions : see previous pages
- General information on peak currents: see end of catalogue.

AGENCY APPROVAL



CECC

CECC 96201-005 (high level - contacts X780) CECC 96201-008 (low level - contacts AD2 or D)

Availability: consult factory for details of approved models.

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

Blank: no agency approval required.