

5000M series

Miniature toggle switches •
threaded bushing Ø 11.9 mm



DISTINCTIVE FEATURES

Bushing Ø 11.9 (15/32)

Panel mounting and PCB terminal combination available

1 to 4 pole configurations

UL and CSA approved



ELECTRICAL SPECIFICATIONS

- Current/voltage rating with resistive load :

Contact	Maximum	Minimum	Level*
Silver (A)	4 A 30 VDC	50 mA 10 VDC	III and IV
Silver, gold plated (AD)	4 A 30 VDC Gold plating withstands up to 100 mA 30 VDC	10 mA 50 mV 10 µA 5 V	I to IV
Brass, gold plated (CD)	0.4 VA at 20 VAC or DC	10 mA 50 mV 10 µA 5 V	I and II

*For details, see Technical Information on website.

- For inductive, lamp or capacitive load, consult factory.
- Initial contact resistance : 10 mΩ max.
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- Dielectric strength :
1,000 Vrms 50 Hz min. between terminals
1,500 Vrms 50 Hz min. between poles
1,500 Vrms 50 Hz min. between terminals and frame
- Contact bounce : 2 ms max.
- Electrical life at full load :
50,000 cycles for single and double pole
40,000 cycles for 3 pole
30,000 cycles for 4 pole
- Low level or mechanical life : 100,000 cycles



GENERAL SPECIFICATIONS

- Torque : 1.25 Nm (.922 Ft.lb) max. applied to nut
- Panel thickness : up to 6 mm (.236)
- 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) or high temperature plastic material (UL94-V0)
- Actuator : brass, nickel plated
- Bushing : brass, nickel plated
- Housing : stainless steel or steel tin plated
- Contacts
 - A : silver
 - AD : silver, gold plated
 - CD : brass, gold plated
 - X814 : for peak currents, see "Special options".
- Terminal seal : epoxy

AGENCY APPROVALS



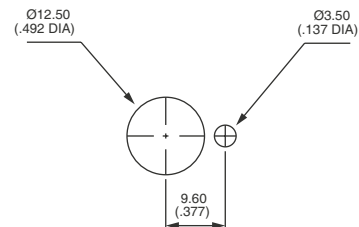
3 A 250 VAC, 6 A 125 VAC

Availability : consult factory for details of approved models.

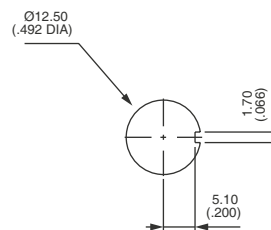
Marking : to order switches marked UL or CSA, complete appropriate box of ordering format. The preferential list does not appear on the switches.



PANEL CUT-OUT



Standard

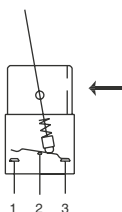


With K sealing option

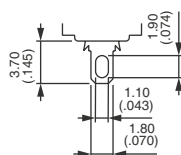


ELECTRICAL FUNCTION

→ KEYWAY



TERMINALS



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BUILD YOUR PART NUMBER

BASIC PART NUMBER									
5									
SERIES	TERMINALS	NUMBER OF POLES			TERMINALS		MOMENTARY FOR FUNCTION 4		
2	Straight PC terminals, 4.70 (.185) terminal spacing - On request.	3	Single pole		M	Solder lugs with Ø 11.9 (15/32) bushing	1R	ON ON MOM	
6	Solder lug terminals	4	Double pole				2R	MOM ON MOM	
		5	Three pole						Leave blank for other functions.
		6	Four pole						
ELECTRICAL FUNCTIONS									
6	ON	-	ON	8	ON	OFF	MOM	TH	Standard
9	ON	OFF	ON	2	ON	-	MOM	CT	Reversed
7	MOM	OFF	MOM	4	ON	ON	ON		
					ON	ON	MOM ▲		
					MOM	ON	MOM ▲		
Function 4 ▲ Must not have blank in «momentary» box. Wiring diagrams, see Technical information, on website.									
CONNECTIONS FOR FUNCTION 4									
For functions 4, 4-1R, 4-2R (leave blank for all other functions). Wiring diagrams, see Technical information on website.									

OPTIONS				
CONTACT MATERIALS	FINISH	SEALING	LEVERS	AGENCY APPROVALS
A Silver	Blank Nickel plated	Blank No sealing	Blank (std) Length 17.5 (.688)	UL, CSA Availability : Consult factory for details of approved models.
AD Silver, gold plated	G Black finish on bushing, actuator and hardware.	K Front panel sealing by one O-ring and sealing washer	-27 Length 11.7 (.460)	
CD Brass, gold plated		B Epoxy sealed terminals		



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.

🔧 Mounting accessories : standard hardware supplied with all models : 2 hex nuts 14 mm (.551) across flats and 1 locking ring. Standard and special hardware is presented in the "Hardware" section of website.

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SOLDER LUG TERMINALS SINGLE POLE



	III	II	I
5636M	2-3 ON	-	1-2 ON
5639M	ON	OFF	ON
5637M	MOM	OFF	MOM
5638M	ON	OFF	MOM
5632M	ON	-	MOM

SOLDER LUG TERMINALS DOUBLE POLE



	III	II	I
5646M	2-3 ON	-	1-2 ON
5649M	5-6 ON	OFF	4-5 ON
5647M	MOM	OFF	MOM
5648M	ON	OFF	MOM
5642M	ON	-	MOM
5644 M*	ON	ON	ON
5644M 1R*	ON	ON	MOM
5644M 2R*	MOM	ON	MOM

SOLDER LUG TERMINALS THREE POLE



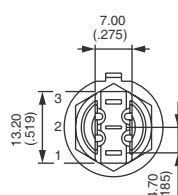
	III	II	I
5656M	2-3 ON	-	1-2 ON
5659M	5-6 ON	OFF	4-5 ON
5657M	8-9 MOM	OFF	7-8 MOM
5658M	ON	OFF	MOM
5652M	ON	-	MOM

SOLDER LUG TERMINALS FOUR POLE

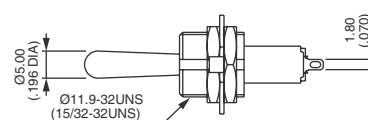
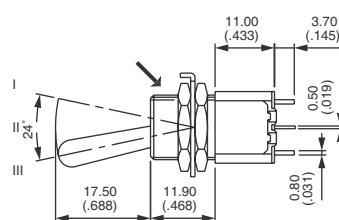


	III	II	I
5666M	2-3 ON	-	1-2 ON
5669M	5-6 ON	OFF	4-5 ON
5667M	8-9 MOM	OFF	7-8 MOM
5668M	11-12 ON	OFF	10-11 MOM
5662M	ON	-	MOM
5664 M*	ON	ON	ON
5664M 1R*	ON	ON	MOM
5664M 2R*	MOM	ON	MOM

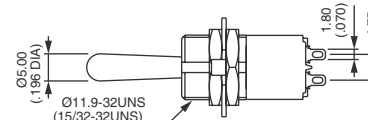
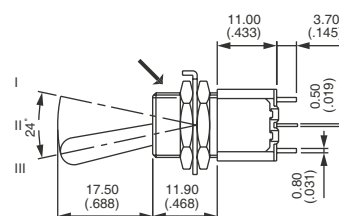
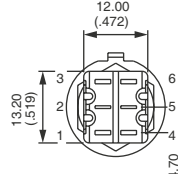
→ KEYWAY



Shown with standard lever

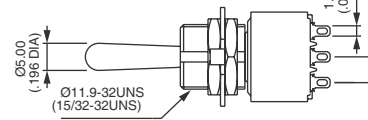
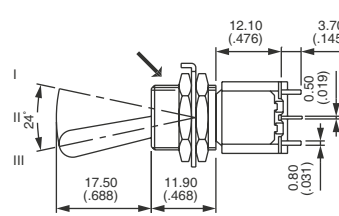
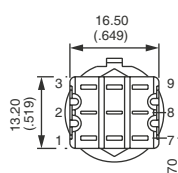


→ KEYWAY

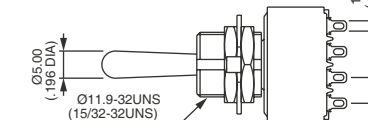
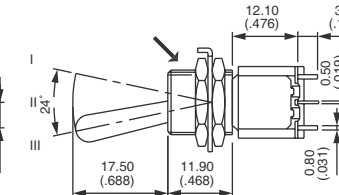
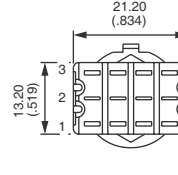


*Function 4 : DP in 4P case - specify CT or TH connections, see "Technical information" on website.

→ KEYWAY



→ KEYWAY



*Function 4 : DP in 4P case - specify CT or TH connections, see "Technical information" on website.

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CONTACT MATERIAL



- A Silver
- AD Silver, gold plated
- CD Brass, gold plated

FINISH

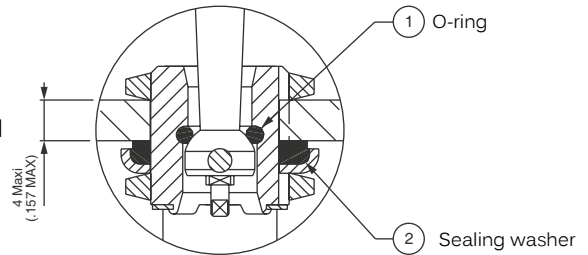


- Blank Nickel plated
- G Black finish on bushing, actuator and hardware

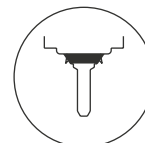
SEALING



- Blank No sealing required
- K Keyway bushing, Includes washer U60
Front panel sealing by one O-ring and sealing washer.
Protects the switch against water and dust.
Panel seal withstands 1 bar pressure and remains sealed
even when switch is operated.
- B Epoxy sealed terminals
- KB Combined sealings

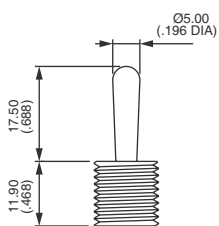
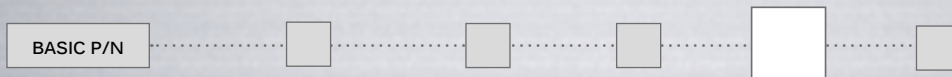


K

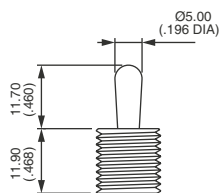


B

LEVERS



Blank
Standard



-27

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AGENCY APPROVALS

BASIC P/N					
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UL

CSA

Blank No agency approval required.

Availability : consult factory for details of approved combinations or options.

Marking : to order switches marked UL or CSA, complete above box with desired approvals, in this order & without space (ex. : ULCSA).