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 currrents, see "Special options".
- Terminal seal : epoxy

AGENCY APPROVALS

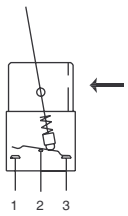
3 A 250 VAC, 6 A 125 VAC

Availability : consult factory for details of approved models.

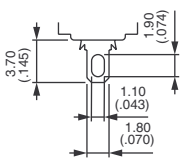
Marking : to order switches marked UL or CSA, complete appropriate box of ordering format. The preferential list does not appear on the switches.

ELECTRICAL FUNCTION

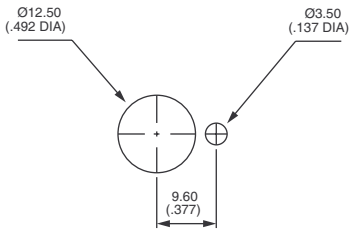
KEYWAY



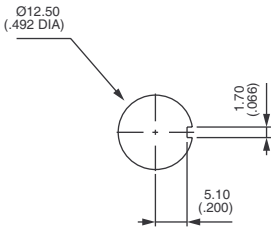
TERMINALS



PANEL CUT-OUT



Standard



With **K** sealing option

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BUILD YOUR PART NUMBER

BASIC PART NUMBER

5 — SERIES

TERMINALS

2	Straight PC terminals, 4.70 (.185) terminal spacing - On request.
6	Solder lug terminals

NUMBER OF POLES

3	Single pole
4	Double pole
5	Three pole
6	Four pole

ELECTRICAL FUNCTIONS

6	ON	-	ON
9	ON	OFF	ON
7	MOM	OFF	MOM

8	ON	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.

TERMINALS

M	Solder lugs with Ø 11.9 (15/32) bushing

CONNECTIONS FOR FUNCTION 4

TH	Standard
CT	Reversed

For functions 4, 4-1R, 4-2R (leave blank for all other functions).
Wiring diagrams, see Technical information on website.

MOMENTARY FOR FUNCTION 4

1R	ON ON MOM
2R	MOM ON MOM

Leave blank for other functions.

OPTIONS

CONTACT MATERIALS

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
K	Front panel sealing by one O-ring and sealing washer
B	Epoxy sealed terminals

LEVERS

Blank (std)	Length 17.5 (.688)
-27	Length 11.7 (.460)

AGENCY APPROVALS

UL, CSA	Availability : Consult factory for details of approved models.

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

SOLDER LUG TERMINALS DOUBLE POLE



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

SOLDER LUG TERMINALS THREE POLE



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

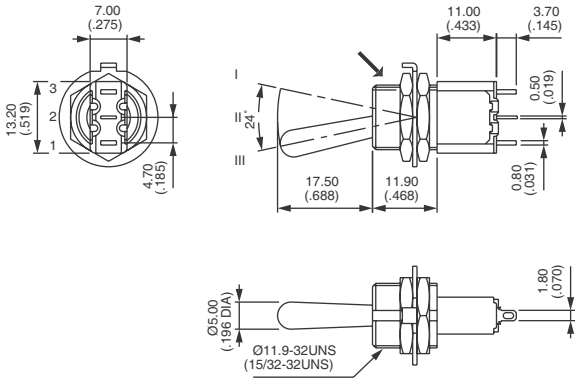
SOLDER LUG TERMINALS FOUR POLE



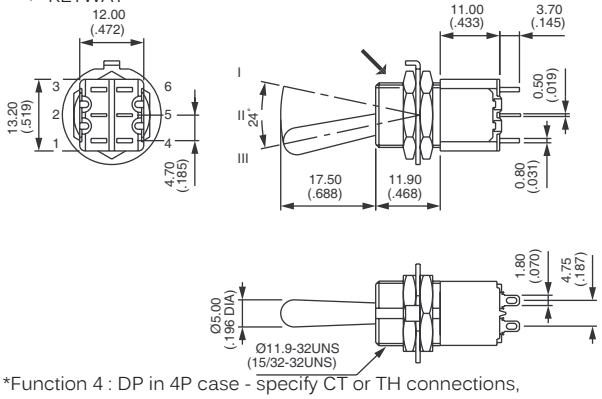
	III 2-3 5-6 8-9 11-12	II	I 1-2 4-5 7-8 10-11
5666M	ON	-	ON
5669M	ON	OFF	ON
5667M	MOM	OFF	MOM
5668M	ON	OFF	MOM
5664 M*	ON	ON	ON
5664M 1R*	ON	ON	MOM
5664M 2R*	MOM	ON	MOM

Shown with standard lever

KEYWAY

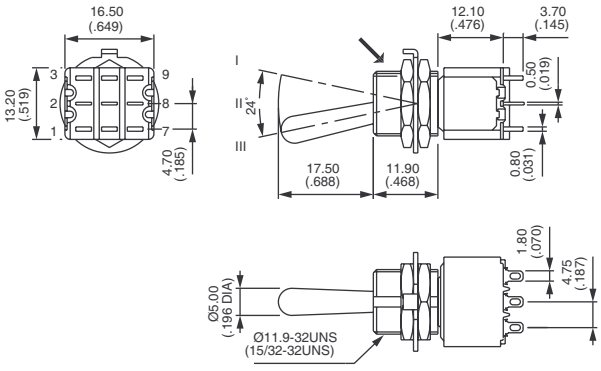


KEYWAY

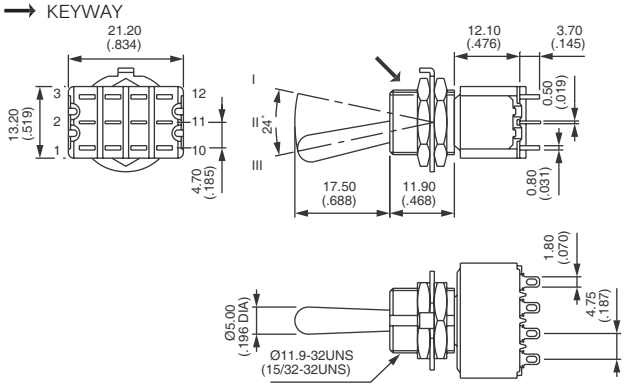


*Function 4 : DP in 4P case - specify CT or TH connections, see "Technical information" on website.

KEYWAY



KEYWAY



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

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CONTACT MATERIAL

BASIC P/N

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

FINISH

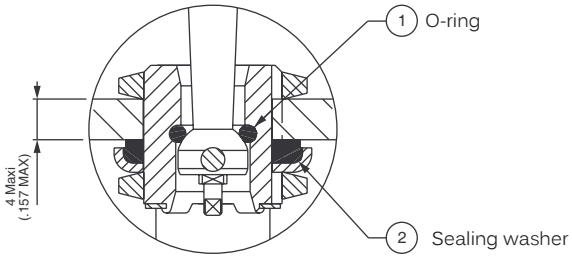
BASIC P/N

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

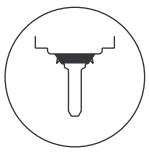
SEALING

BASIC P/N

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



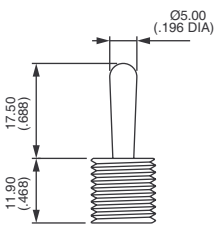
K



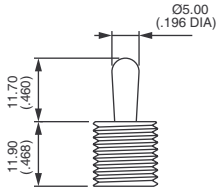
B

LEVERS

BASIC P/N



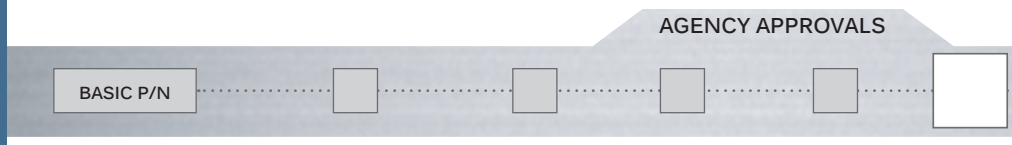
Blank
Standard



-27

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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).