1200M/MR series

Robust momentary pushbutton switches • metal plunger



DISTINCTIVE FEATURES

Butt action contacts
Double break
UL and CSA approved



ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
  - silver contacts (A) : 4 A 250 VAC - 8 A 125 VAC - 4 A 24 VDC - 8 A 12 VDC
  - silver plated copper contacts (C) :
  2 A 250 VAC - 3 A 125 VAC - 2 A 24 VDC - 3 A 12 VDC
- Initial contact resistance : 10 mΩ max.
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- Dielectric strength :
  2,000 Vrms 50 Hz min. between terminals
  3,000 Vrms 50 Hz min. between terminals and frame
- Electrical life : 10,000 cycles at full load

GENERAL SPECIFICATIONS

- Torque : 1.50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness : 4.5 mm (.177) max.
- Total travel :
  NO : 4.5 mm (.177) ± 0.3 (.011)
  NC : 3.5 mm (.137) ± 0.3 (.011)
- Operating temperature : -20 °C to +55 °C (-4 °F to +131 °F)

MATERIALS

- Case : polyamide
- Plunger : top chrome plated brass on polyamide base
- Bushing : brass, nickel plated
- Contacts :
  A : silver
  C : copper, silver plated
- Cap nut : brass, chrome plated

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

The company reserves the right to change specifications without notice.

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MOUNTING

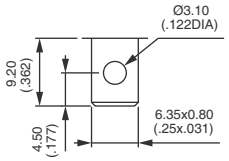
• Panel cut-out : Ø 12.2 (.480)

AGENCY APPROVALS

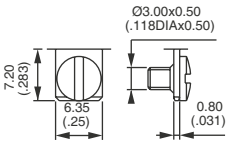
4 A 250 VAC - 8 A 125 VAC

Availability : approved models are 1213A and 1203A (M or MR) (model 1223A is only UL approved).
Marking : to order switches marked UL or CSA, complete appropriate box of ordering format.

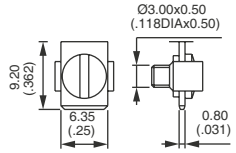
TERMINALS



Solderlug / quick-connect.



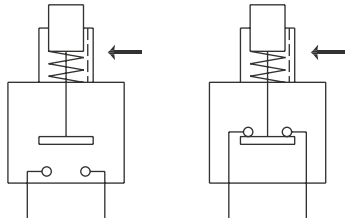
Screw



Screw + clamp

ELECTRICAL FUNCTIONS

→ KEYWAY



NO (function 3) NC (function 2)

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BUILD YOUR PART NUMBER

BASIC PART NUMBER

12 _ _ _

SERIES

12

TERMINALS

1	Solder lug and quick-connect
2	Screw
0	Screw terminal + clamp

ELECTRICAL FUNCTIONS

2	Normally closed
3	Normally open

PLUNGER TYPE

M	Flat plunger
MR	Round plunger

OPTIONS

_ _

CONTACT MATERIALS

A	Silver
C	Copper, silver plated

APPROVALS

UL/CSA	See following pages 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 following pages for further information.

Mounting accessories : standard hardware supplied with all models : 1 hex nut U166 and 1 conic cap nut U1866-6. Special cap nut U1874 is presented on the following pages.

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SOLDER LUG/QUICK-CONNECT TERMINALS 6.35 X 0.8 (.250 X .031)



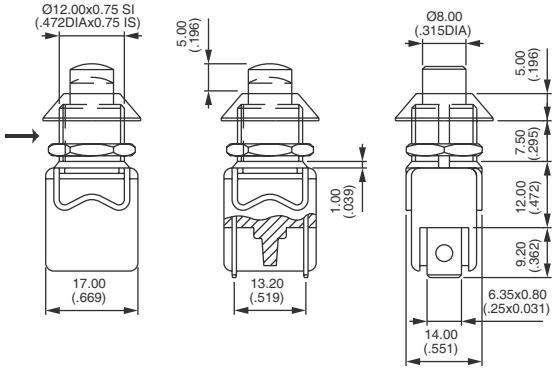
Curved plunger

1212MR	Normally Closed
1213MR	Normally Open

Flat plunger

1212M	Normally Closed
1213M	Normally Open

→ KEYWAY



SCREW TERMINALS



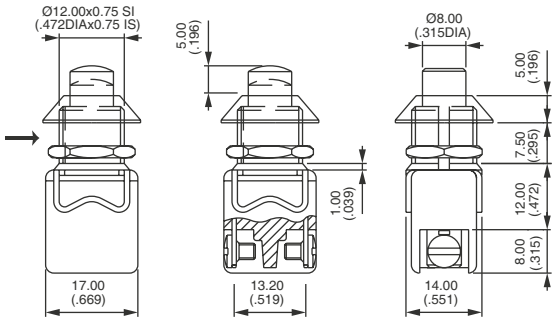
Curved plunger

1222MR	Normally Closed
1223MR	Normally Open

Flat plunger

1222M	Normally Closed
1223M	Normally Open

→ KEYWAY



SCREW TERMINALS + CLAMP



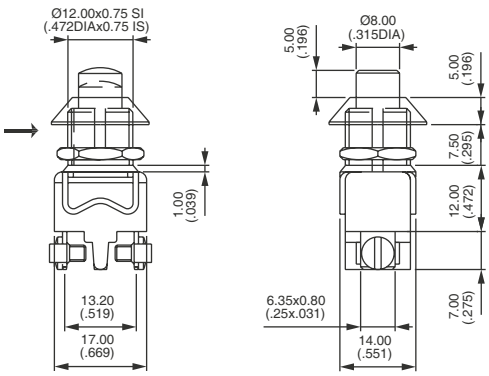
Curved plunger

1202MR	Normally Closed
1203MR	Normally Open

Flat plunger

1202M	Normally Closed
1203M	Normally Open

→ KEYWAY



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CONTACT MATERIALS

BASIC P/N

A	Silver
C	Copper, silver plated

AGENCY APPROVAL

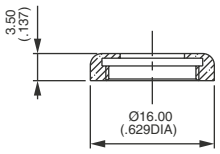
BASIC P/N

UL - CSA

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Marking : to order switches marked UL or CSA, complete above box with desired approvals.

SPECIAL CAP NUT

Order separately.
Chrome plated cap nut Ø 16 (.629), flat and plain.
Can be supplied instead of standard cap nut U1866-6.



U1874