

1200 series

Momentary pushbutton switches •
round plunger



DISTINCTIVE FEATURES

Butt action contacts

Double break

NF (EN 61058-1), UL WOYR2 and WOYR8 (UL61058-1 and CAN/
CSA-C22.2 N°61058-1)



ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
- silver contacts (A) : 4 A 250 VAC - 4 A 24 VDC - 8 A 12 VDC
- silver plated copper contacts (C) :
2 A 250 VAC - 2 A 24 VDC - 3 A 12 VDC
- Initial contact resistance : 10 mΩ
- 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 : 5 mm (.196) max.
- Total travel :
NO : 4.5 (.177) ± 0.3 (.011)
NC : 3.5 (.137) ± 0.3 (.011)
- Operating temperature : -20 °C to +55 °C (-4 °F to +131 °F)



MATERIALS

- Case : polyamide
- Plunger : polyamide
- Bushing : brass, nickel plated
- Contacts :
A : silver
C : copper, silver 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



EN 61058-1

2 A 250 VAC or 4 A 250 VAC,
T55/125 °C

All models



UL61058-1

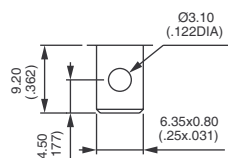
CAN/CSA-C22.2 N°61058-1

2A 250VAC or
4A 250VAC, T55

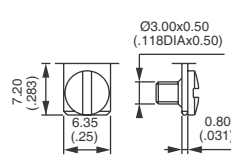
Models 1233X209 and 1233X209L are standard marked NF. To order switches marked NF, UL, complete appropriate box of ordering format.



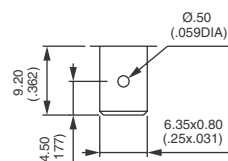
TERMINALS



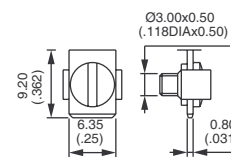
Solderlug / quick-connect



Screw



Normalized quick-connect

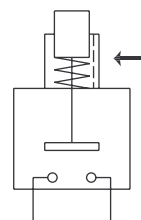


screw + clamp

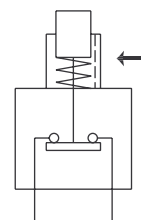


ELECTRICAL FUNCTIONS

→ KEYWAY



NO (function 3)



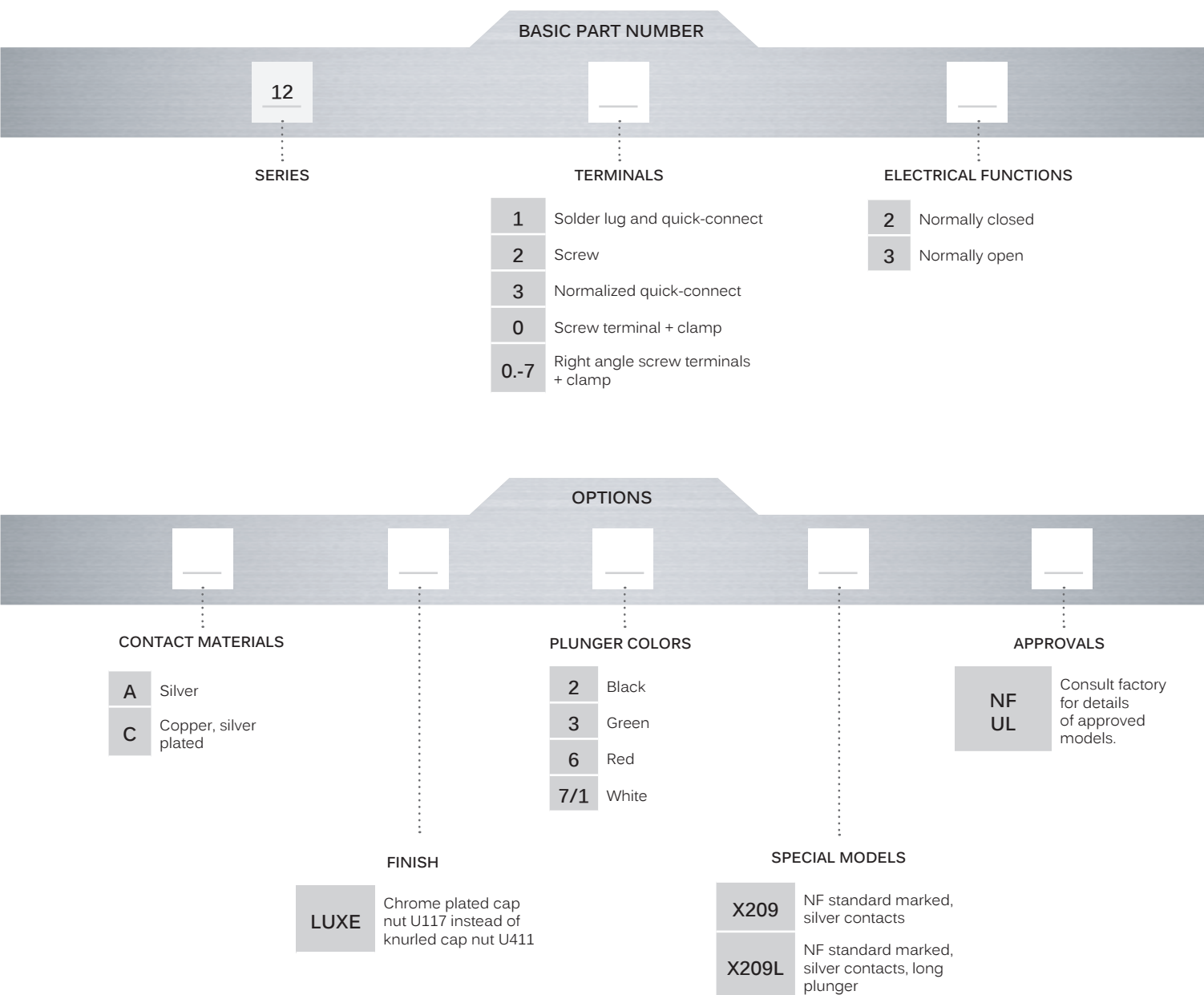
NC (function 2)

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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 following pages for further information.



Sealing boots are available to protect the switches against dust and water. See Sealing Boot section.



Mounting accessories : standard hardware supplied : 1 hex nut U166 and 1 knurled nut U411
Standard and special hardware is presented in the "Hardware" section of website.

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SOLDER LUG/QUICK-CONNECT TERMINALS



1212  Normally Closed

1213  Normally Open

Plunger height : NO model : 7.50 mm, NC model : 6.70 mm

SCREW TERMINALS



1222  Normally Closed

1223  Normally Open

Plunger height : NO model : 7.50 mm, NC model : 6.70 mm

NORMALIZED QUICK-CONNECT TERMINALS



1232  Normally Closed

1233  Normally Open

Plunger height : NO model : 7.50 mm, NC model : 6.70 mm

STRAIGHT SCREW TERMINALS + CLAMP

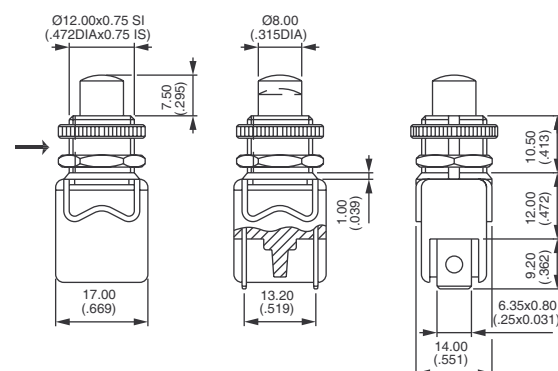


1202  Normally Closed

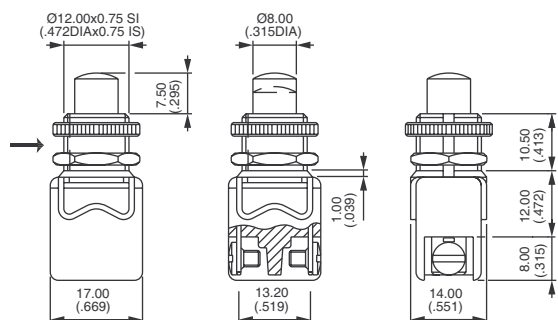
1203  Normally Open

Plunger height : NO model : 7.50 mm, NC model : 6.70 mm

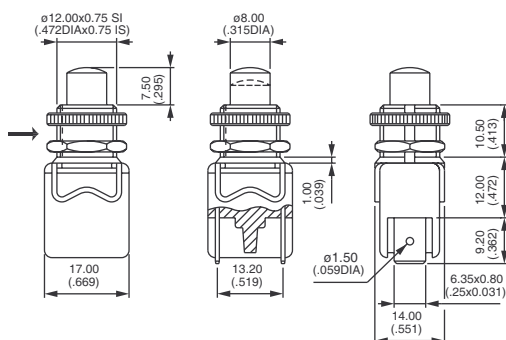
→ KEYWAY



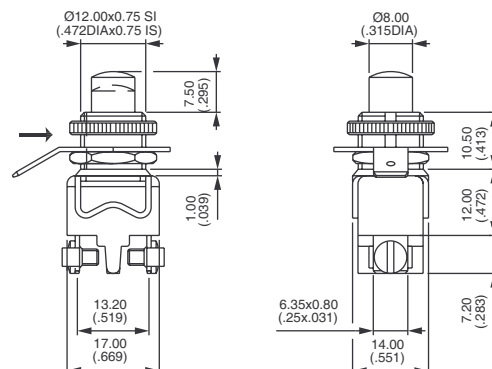
→ KEYWAY



→ KEYWAY



→ KEYWAY



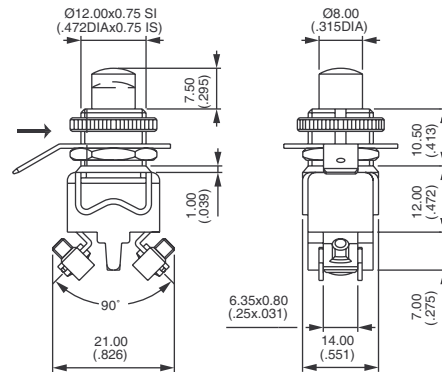
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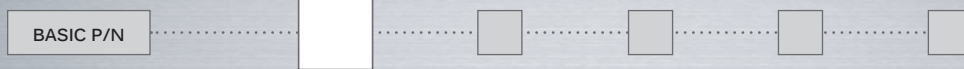
RIGHT ANGLE SCREW TERMINALS + CLAMP

1203-7  Normally Open

→ KEYWAY



CONTACT MATERIALS



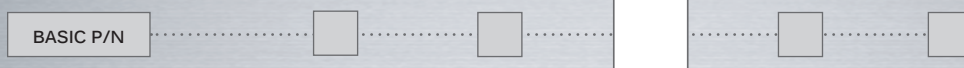
- A Silver
- C Copper, silver plated

FINISH



LUXE Chrome plated cap nut U117 instead of knurled nut U411

PLUNGER COLORS



- 2 Black
- 3 Green
- 6 Red
- 7/1 White

SPECIAL MODELS



X209 NF standard marked - Silver contacts - **short** plunger

X209L NF standard marked - Silver contacts - **long** plunger

See drawings next page

NOTE : Ground connector U187 compulsory on models X209 and X209L if the panel is not metallic or not connected to ground. Order separately : see "Hardware" section of website.

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SPECIAL MODELS (CONTINUED)

BASIC P/N

OPTION X209

1233A•X209

Normally Open

Replace • with the desired plunger color.

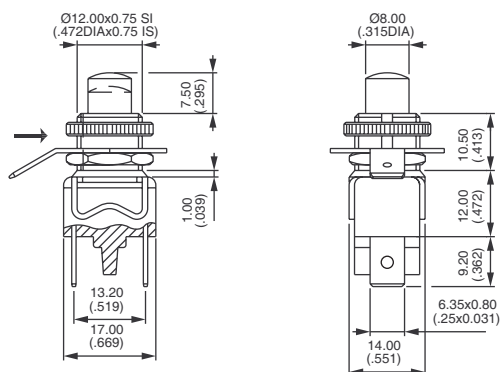
OPTION X209L

1233A•X209L

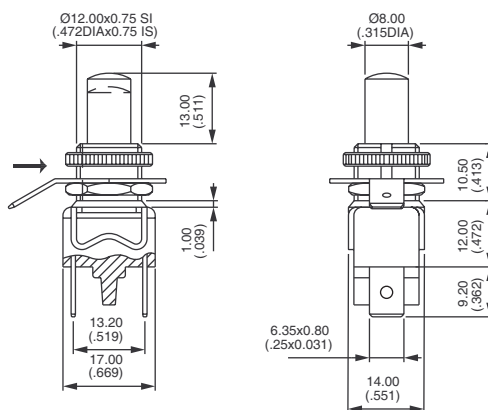
Normally Open

Replace • with the desired plunger color.

→ KEYWAY



→ KEYWAY



AGENCY APPROVALS

BASIC P/N

NF All models

UL All models

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