

1200 series

Momentary pushbutton switches •
round plunger



DISTINCTIVE FEATURES

Butt action contacts

Double break

NF (EN 61058-1), 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
- 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 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 : 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 : $\varnothing$ 12.2 (.480)

AGENCY APPROVALS



EN 61058-1

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

All models

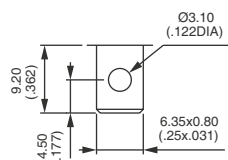


4 A 250 VAC - 8 A 125 VAC
All models function 3 (NO)

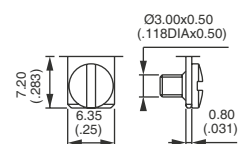
Models 1233X209 and 1233X209L are standard marked NF. To order switches marked NF, UL or CSA, complete appropriate box of ordering format.



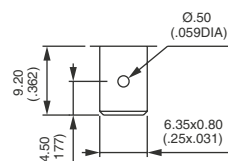
TERMINALS



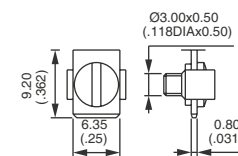
Solderlug / quick-connect



Screw



Normalized quick-connect

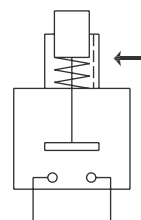


Screw + clamp

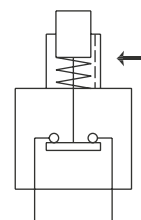


ELECTRICAL FUNCTIONS

→ KEYWAY



NO (function 3)



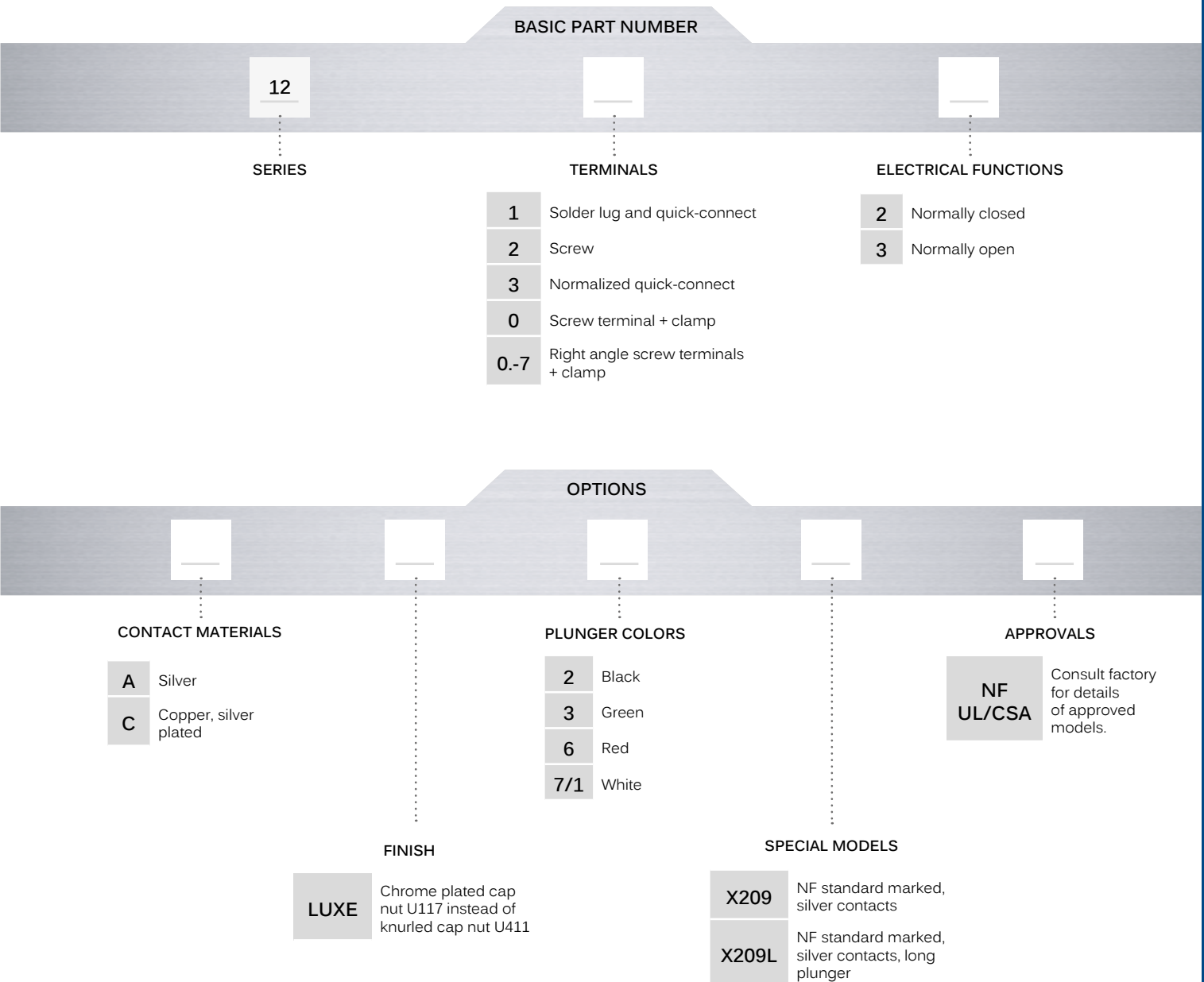
NC (function 2)

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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 Boots" section of website.
- 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 : 5.80 mm

SCREW TERMINALS



1222  Normally Closed

1223  Normally Open

Plunger height : NO model : 7.50 mm, NC model : 5.80 mm

NORMALIZED QUICK-CONNECT TERMINALS



1232  Normally Closed

1233  Normally Open

Plunger height : NO model : 7.50 mm, NC model : 5.80 mm

STRAIGHT SCREW TERMINALS + CLAMP

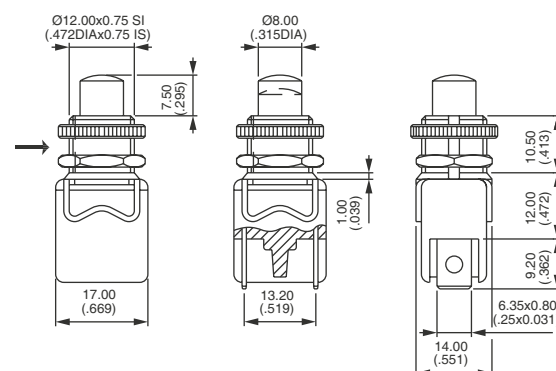


1202  Normally Closed

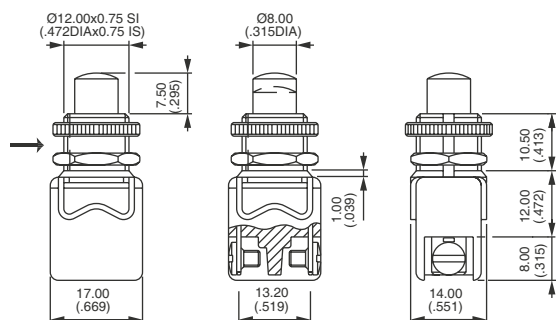
1203  Normally Open

Plunger height : NO model : 7.50 mm, NC model : 5.80 mm

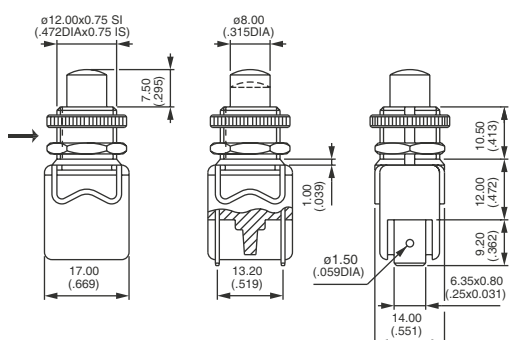
→ KEYWAY



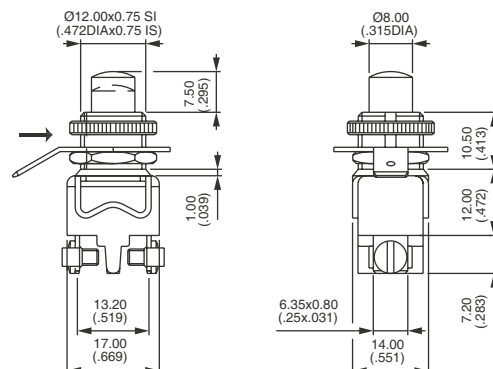
→ KEYWAY



→ KEYWAY



→ KEYWAY



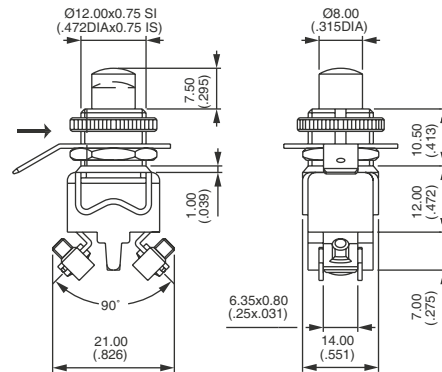
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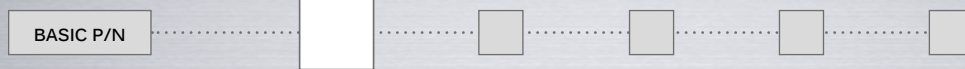
RIGHT ANGLE SCREW TERMINALS + CLAMP

1203-7  Normally Open

→ KEYWAY



CONTACT MATERIALS



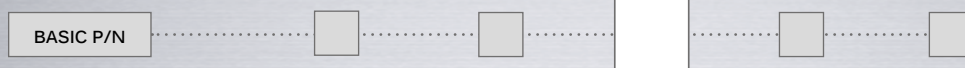
- A Silver
- C Copper, silver plated

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

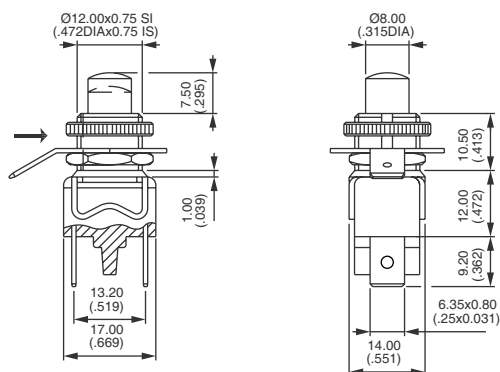
Replace • with the desired plunger color.

OPTION X209L

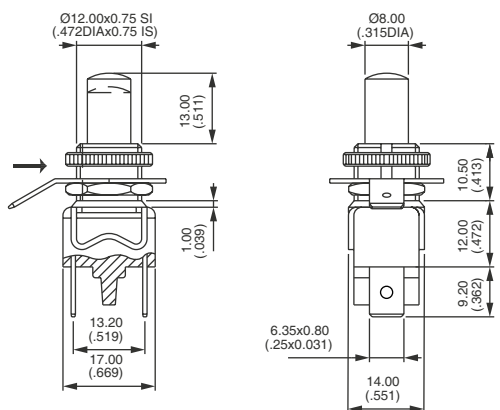
1233A•X209L  Normally Open

Replace • with the desired plunger color.

→ KEYWAY



→ KEYWAY



AGENCY APPROVALS

BASIC P/N

NF All models

UL-CSA All models function 3 (NO), including X209 and X209L

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem:](#)

[12037A2ULCSA](#) [1213C2](#) [1203MAULCSA](#) [1213A2ULCSA](#) [1223A2ULCSA](#) [1223MAULCSA](#) [1233A2X209LULCSA](#)
[1233A2X209ULCSA](#) [1202A2](#) [1202A6](#) [1202MA](#) [1212A2](#) [1212MA](#) [1212MRA](#) [1213A2](#) [1213MRC+U1874](#) [1222A2](#)
[1222MA](#) [1222MRA](#) [1203A2UL](#) [1203MRA](#) [1212C2](#) [1212C3](#) [1212C6](#) [1212C7/1](#) [1213A2UL](#) [1213C3](#) [1213C6](#)
[1213C7/1](#) [1213MA](#) [1213MAUL](#) [1213MC](#) [1223MRA](#) [1223MRC](#) [1232A2](#) [1232A6NF](#) [1232AX2119](#) [1232C2](#)
[1233A2NF](#) [1233A2X209UL](#) [1233C6](#) [1213MAULCSA](#) [1203A2ULCSA](#) [1223A2](#) [1212A6](#) [1233C2](#) [1213A6ULCSA](#)
[1213A6](#) [1233A2X209LUL](#) [1223C2](#) [1203AX2046](#) [1213MRAUL](#) [1212A3](#) [1233A2X209](#) [1222C6](#) [1233A2](#) [1223C6](#)
[1212A7/1](#)