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: Ø 12.2 (.480)

**AGENCY APPROVALS**

- NF EN 61058-1  2 A 250 VAC or 4 A 250 VAC, TSS/125 °C  All models
- UL  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**

- NO (function 3)
- NC (function 2)
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BUILD YOUR PART NUMBER

BASIC PART NUMBER

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<th>SERIES</th>
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<tr>
<td>12</td>
<td>1 Solder lug and quick-connect</td>
<td>2 Normally closed</td>
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<tr>
<td></td>
<td>2 Screw</td>
<td>3 Normalized quick-connect</td>
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<tr>
<td></td>
<td>3 Normalized quick-connect</td>
<td>0 Screw terminal + clamp</td>
</tr>
<tr>
<td></td>
<td>0 Screw terminal + clamp</td>
<td>0.7 Right angle screw terminals + clamp</td>
</tr>
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OPTIONS

CONTACT MATERIALS

A Silver
C Copper, silver plated

PLUNGER COLORS

2 Black
3 Green
6 Red
7/1 White

FINISH

LUXE Chrome plated cap nut U117 instead of knurled cap nut U411

APPROVALS

NF UL/CSA Consult factory for details of approved models.

SPECIAL MODELS

X209 NF standard marked, silver contacts
X209L NF standard marked, silver contacts, long plunger

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.
1200 series

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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
1200 series
Momentary pushbutton switches • round plunger

RIGHT ANGLE SCREW TERMINALS + CLAMP

1203-7 Normally Open

CONTACT MATERIALS

| BASIC P/N | A | Silver | | C | Copper, silver plated |

FINISH

| BASIC P/N | LUXE | Chrome plated cap nut U117 instead of knurled nut U411 |

PLUNGER COLORS

| BASIC P/N | 2 | Black | | 3 | Green | | 6 | Red | | 7/1 | White |

SPECIAL MODELS

| BASIC P/N | 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.
1200 series

Momentary pushbutton switches • round plunger

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

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.