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.
* Normalized quick-connect

**ELECTRICAL FUNCTIONS**

* NO (function 3)
* NC (function 2)
## BUILD YOUR PART NUMBER

### BASIC PART NUMBER

<table>
<thead>
<tr>
<th>SERIES</th>
<th>TERMINALS</th>
<th>ELECTRICAL FUNCTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>1: Solder lug and quick-connect</td>
<td>2: Normally closed</td>
</tr>
<tr>
<td></td>
<td>2: Screw</td>
<td>3: Normally open</td>
</tr>
<tr>
<td></td>
<td>3: Normalized quick-connect</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0: Screw terminal + clamp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.-7: Right angle screw terminals + clamp</td>
<td></td>
</tr>
</tbody>
</table>

### TERMINALS

- 1: Solder lug and quick-connect
- 2: Screw
- 3: Normalized quick-connect
- 0: Screw terminal + clamp
- 0.-7: Right angle screw terminals + clamp

### ELECTRICAL FUNCTIONS

- 2: Normally closed
- 3: Normally open

### OPTIONS

#### CONTACT MATERIALS

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Silver</td>
</tr>
<tr>
<td>C</td>
<td>Copper, silver plated</td>
</tr>
</tbody>
</table>

#### PLUNGER COLORS

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Black</td>
</tr>
<tr>
<td>3</td>
<td>Green</td>
</tr>
<tr>
<td>6</td>
<td>Red</td>
</tr>
<tr>
<td>7/1</td>
<td>White</td>
</tr>
</tbody>
</table>

#### APPROVALS

- NF: NF standard marked, silver contacts
- 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

#### FINISH

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

### 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:
- silver contact models: 1 hex nut U166 and 1 knurled nut U411
- copper contact models: 1 hex nut U42 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
# 1200 series

Momentary pushbutton switches • round plunger

## RIGHT ANGLE SCREW TERMINALS + CLAMP

1203-7 Normally Open

## CONTACT MATERIALS

<table>
<thead>
<tr>
<th>BASIC P/N</th>
<th>A</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Silver</td>
<td>Copper, silver plated</td>
</tr>
</tbody>
</table>

## FINISH

<table>
<thead>
<tr>
<th>BASIC P/N</th>
<th>LUXE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chrome plated cap nut U117 instead of knurled nut U411</td>
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</table>

## PLUNGER COLORS

<table>
<thead>
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<th>2</th>
<th>3</th>
<th>6</th>
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<tbody>
<tr>
<td></td>
<td>Black</td>
<td>Green</td>
<td>Red</td>
<td>White</td>
</tr>
</tbody>
</table>

## SPECIAL MODELS

<table>
<thead>
<tr>
<th>BASIC P/N</th>
<th>X209</th>
<th>X209L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NF standard marked - Silver contacts - short plunger</td>
<td>NF standard marked - Silver contacts - long plunger</td>
</tr>
</tbody>
</table>

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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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.

SPECIAL MODELS

(Continued)

AGENCY APPROVALS

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.