# 6000 series

Toggle switches for military applications

## DISTINCTIVE FEATURES

**Suitable for military or industrial applications**
**Sealing and locking lever options available**
**Black finish on actuator and bushing**

## ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating : see table below
- 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

| Current/Voltage Rating | |
|---|---|
| Resistive load | 6.5 A 30 VDC |
| Inductive load | 5 A 30 VDC |
| Lamp load | 3 A 30 VDC |

## GENERAL SPECIFICATIONS

- Torque : 1.50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness : 5 mm (.196) max.
- Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)

## MATERIALS

- Case : diallylphthalate (DAP)
- Actuator : brass, chrome plated, black
- Bushing : brass, chrome plated, black
- Contacts : **A** : silver

The company reserves the right to change specifications without notice.

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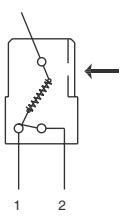
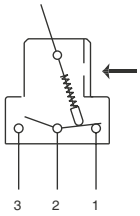
## ELECTRICAL FUNCTIONS

→ KEYWAY

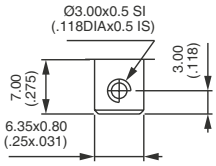



1 pole

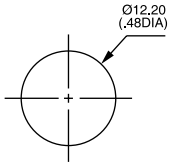



2, 3, and 4 pole

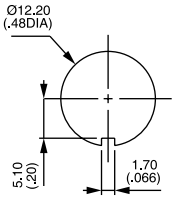
## TERMINALS



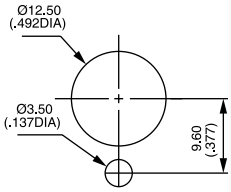

## STANDARD PANEL CUT-OUT




Standard



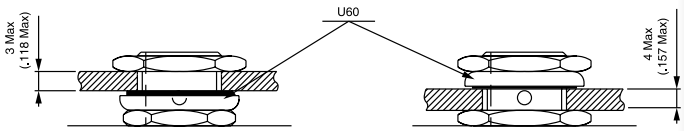

With **K** sealing option




With locking ring

## PANEL CUT-OUT WITH "K" SEALING

Recommended cut-out and mounting depending on panel thickness



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## BUILD YOUR PART NUMBER

### BASIC PART NUMBER

| SERIES | CASE | NUMBER OF POLES | ELECTRICAL FUNCTIONS |
|---|---|---|---|
| 6 | | | |

**CASE**

| | |
|---|---|
| 4 | For single pole (screw terminals compulsory) |
| 6 | For other models |

**NUMBER OF POLES**

| | |
|---|---|
| 2 | Single pole |
| 4 | Double pole |
| 5 | Three pole |
| 6 | Four pole |

**ELECTRICAL FUNCTIONS**

| | | | |
|---|---|---|---|
| 1A-03 | ON | - | OFF * |
| 1-03 | ON | - | OFF |
| 2-03 | ON | - | m.OFF |
| 3-03 | MOM | - | OFF |
| 4-03 | ON | ON | ON |
| 5-03 | MOM | - | ON |
| 6-03 | ON | - | ON |
| 7-03 | MOM | OFF | MOM |
| 8-03 | ON | OFF | MOM |
| 9-03 | ON | OFF | ON |

* for single pole only

### OPTIONS

| FINISH | SEALING | LOCKING LEVERS | TERMINALS |
|---|---|---|---|
| | | | |

**FINISH**

| | |
|---|---|
| B | Lever and bushing with grey satin chrome finish |
| LM | Nickel plated bushing - lever and upper nut bright chrome plated |
| 8 | Black lever with fluorescent tip |

**SEALING**

| | |
|---|---|
| K | Front panel sealing by O-ring and sealing washer |

**LOCKING LEVERS**

| | |
|---|---|
| -1V | 1 locked position |
| -2V | 2 locked positions |
| -3V | 3 locked positions |

**TERMINALS**

| | |
|---|---|
| Blank | Screw |
| /2 | Solder lug |
| /3 | Quick-connect 6.35 x 0.8 mm |

## 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 the 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 with all models : 2 matt black nuts U41, matt black locking ring U12, zinc plated lockwasher U13. They are presented in the “Hardware“ section of website.

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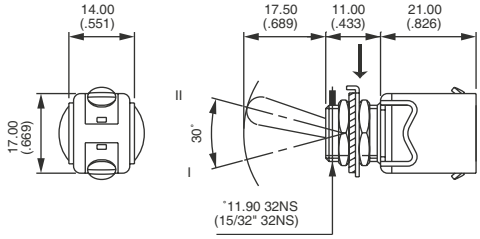
## SCREW TERMINALS - SINGLE POLE

| | I | | II |
|---|---|---|---|
| 6421A-03 | ON | - | OFF |

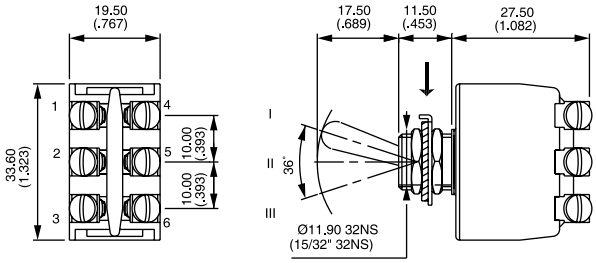
→ KEYWAY




## SCREW TERMINALS - DOUBLE POLE

| | III<br>2-1<br>5-4 | II | I<br>2-3<br>5-6 |
|---|---|---|---|
| 6641-03 | ON | - | OFF |
| 6642-03 | ON | - | mom.OFF |
| 6643-03 | MOM | - | OFF |
| 6644-03 ▲ | ON | ON | ON |
| 6645-03 | MOM | - | ON |
| 6646-03 | ON | - | ON |
| 6647-03 | MOM | OFF | MOM |
| 6648-03 | ON | OFF | MOM |
| 6649-03 | ON | OFF | ON |

→ KEYWAY



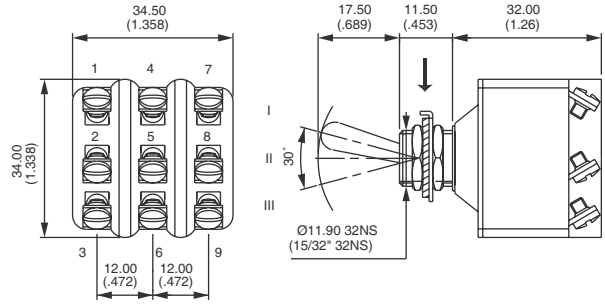

▲ Function 4 : SP in DP case, see "Technical information" on website.

## SCREW TERMINALS - THREE POLE

| | III* | II | I** |
|---|---|---|---|
| 6651-03 | ON | - | OFF |
| 6652-03 | ON | - | mom.OFF |
| 6653-03 | MOM | - | OFF |
| 6655-03 | MOM | - | ON |
| 6656-03 | ON | - | ON |
| 6657-03 | MOM | OFF | MOM |
| 6658-03 | ON | OFF | MOM |
| 6659-03 | ON | OFF | ON |

*(2-1) (5-4)(8-7) **(2-3) (5-6) (8-9)

→ KEYWAY

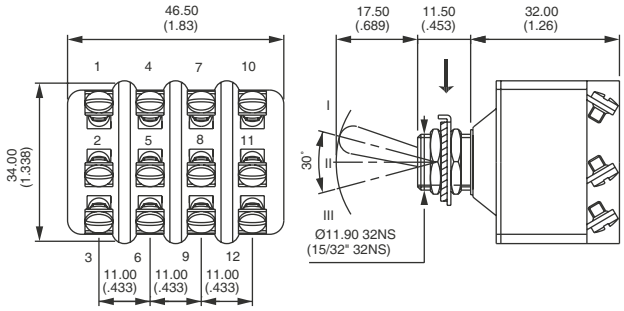



## SCREW TERMINALS - FOUR POLE

| | III* | II | I** |
|---|---|---|---|
| 6661-03 | ON | - | OFF |
| 6662-03 | ON | - | mom.OFF |
| 6663-03 | MOM | - | OFF |
| 6664-03 ▲ | ON | ON | ON |
| 6665-03 | MOM | - | ON |
| 6666-03 | ON | - | ON |
| 6667-03 | MOM | OFF | MOM |
| 6668-03 | ON | OFF | MOM |
| 6669-03 | ON | OFF | ON |

*(2-1) (5-4)(8-7) (11-10) **(2-3) (5-6) (8-9) (11-12)

→ KEYWAY




▲ Function 4 : SP in DP case, see "Technical information" on website.

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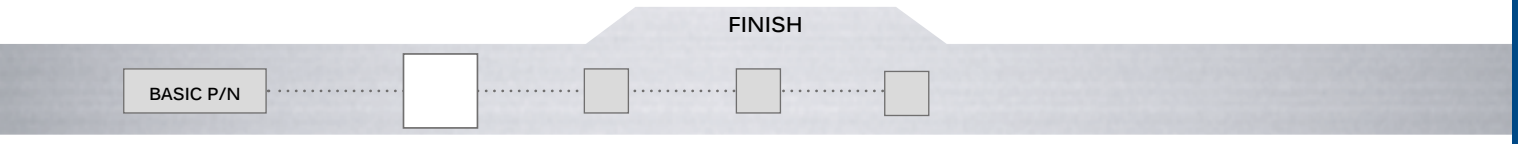
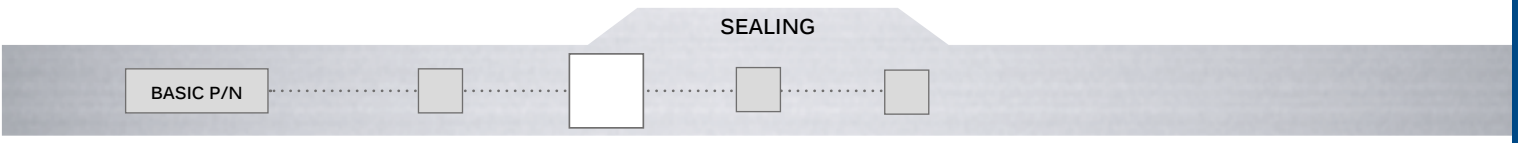
### FINISH

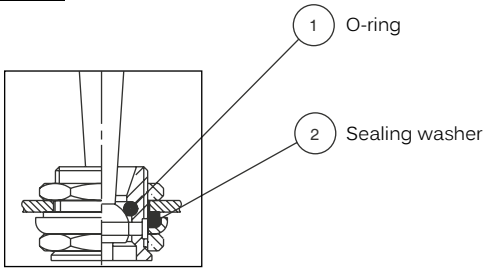



| | |
|---|---|
| B | Lever and bushing with grey satin chrome finish |
| LM | Nickel plated bushing - lever and upper nut bright chrome plated |
| 8 | Black lever with fluorescent tip |

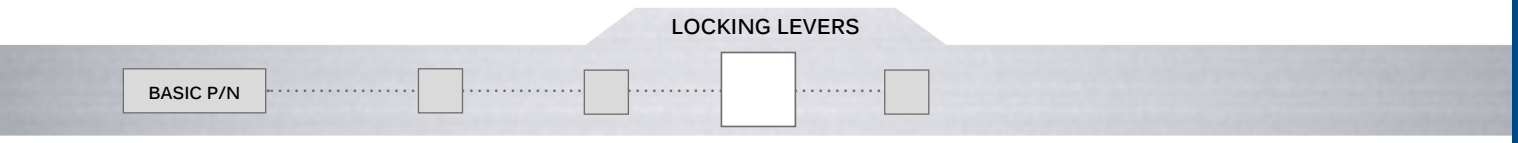
### SEALING



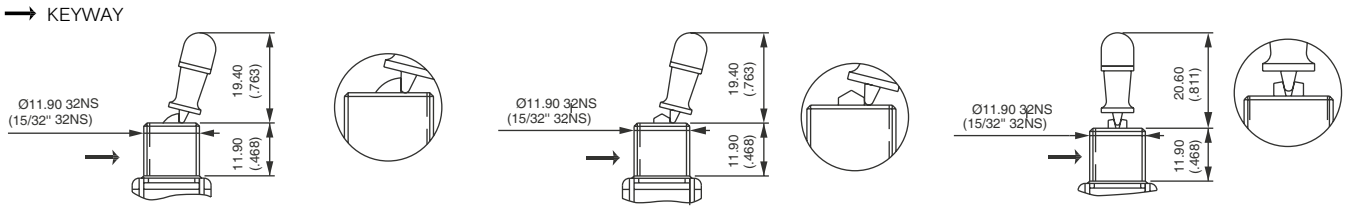

K Front sealing by O-ring and sealing washer.
Protects the switch against water and dust.
Panel seal withstands 1 bar pressure and remains sealed even when switch is operated.




### LOCKING LEVERS

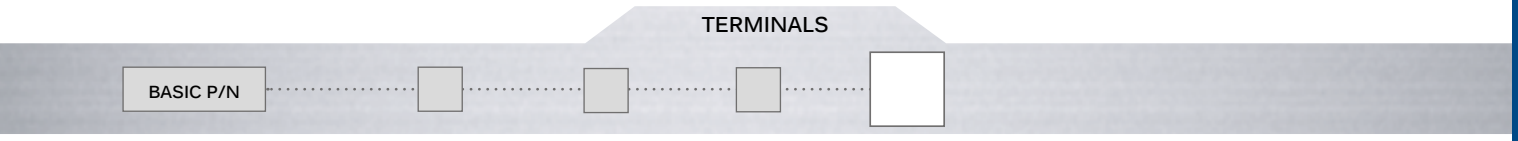



| | |
|---|---|
| -1V | 1 locked position |
| -2V | 2 locked positions |
| -3V | 3 locked positions |

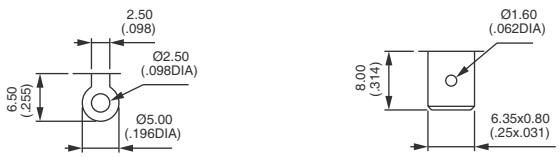



-1V -2V -3V

### TERMINALS




| | |
|---|---|
| Blank | Screw terminals (compulsory for single pole models) |
| /2 | Solder lug terminals |
| /3 | Quick-connect terminals 6.35 x 0.8 (.250 x .031) |




/2 /3

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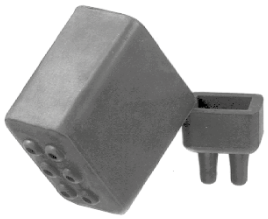
## NEOPRENE PROTECTION CAPS

**To be ordered separately.**
Example : PROTECTION CAP U58
These caps are designed to insulate terminals against electrical short circuit.

| | |
|---|---|
| **U58** | For 1-pole models |
| **U120** | For 2-pole models |
| **U46** | For 3-pole models |
| **U47** | For 4-pole models |