

# 5000 series

Miniature toggle switches •  
threaded bushing Ø 6.35 mm or plain bushing



## DISTINCTIVE FEATURES

17 actuators including toggles, paddle levers and locking levers in different lengths.

Various contact materials for low and high currents.

8 functions including maintained and momentary versions.

1 to 4 pole configurations.

12 terminal types including 9 for PC board mounting.

Other types include quick-connect and wire-wrap.

Several bushing styles.

3 types of finish including military black.

3 approvals (UL - CSA - CECC).

4 types of sealing for terminal or front panel requirements.

Numerous accessories available.



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## ELECTRICAL SPECIFICATIONS

- Current/voltage rating with resistive load :

| Contact                  | Maximum                                                   | Minimum                  | Level*     |
|--------------------------|-----------------------------------------------------------|--------------------------|------------|
| Silver (A)               | 4 A 30 VDC                                                | 50 mA 10 VDC             | III and IV |
| Silver, gold plated (AD) | 4 A 30 VDC<br>Gold plating withstands up to 100 mA 30 VDC | 10 mA 50 mV<br>10 µA 5 V | I to IV    |
| Brass, gold plated (CD)  | 0.4 VA at 20 VAC or DC                                    | 10 mA 50 mV<br>10 µA 5 V | I and II   |

\*For details, see Technical Information on website.

- For inductive, lamp or capacitive load, consult factory.
- Initial contact resistance : 10 mΩ max.
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- Dielectric strength :  
1,000 Vrms 50 Hz min. between terminals  
1,500 Vrms 50 Hz min. between poles  
1,500 Vrms 50 Hz min. between terminals and frame
- Contact bounce : 2 ms max.
- Electrical life at full load :  
50,000 cycles for single and double pole  
40,000 cycles for 3 pole  
30,000 cycles for 4 pole
- Low level or mechanical life : 100,000 cycles



## GENERAL SPECIFICATIONS

- Torque : 1.25 Nm (.922 Ft.lb) max. applied to nut
- Panel thickness : 2.5 mm (.098) with 2 nuts - 4 mm (.157) with 1 nut
- Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)



## MATERIALS

- Case : diallylphthalate (DAP) or high temperature plastic material (UL94-V0)
- Actuator : brass, nickel plated
- Paddles : UL94HB polyamide
- Lever caps : vinyl
- Bushing : brass, nickel plated
- Housing : stainless steel or steel tin plated
- Contacts  
A : silver  
AD : silver, gold plated  
CD : brass, gold plated  
X814 : for peak currents, see "Special options".
- Terminal seal : epoxy

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

## AGENCY APPROVALS



CECC 96201-007

3 A 250 VAC, 6 A 125 VAC

For VDE, refer to 55000 series.

NATO

**Availability** : consult factory for details of approved models.

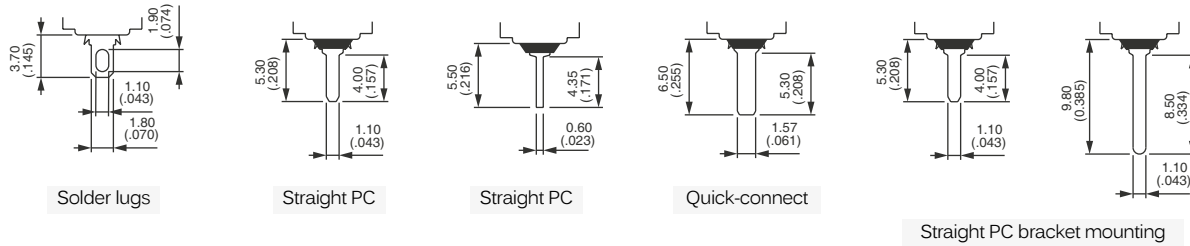
**Marking** : to order switches marked UL, CSA or CECC, complete appropriate box of ordering format. The preferential list does not appear on the switches.

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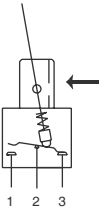


## TERMINALS

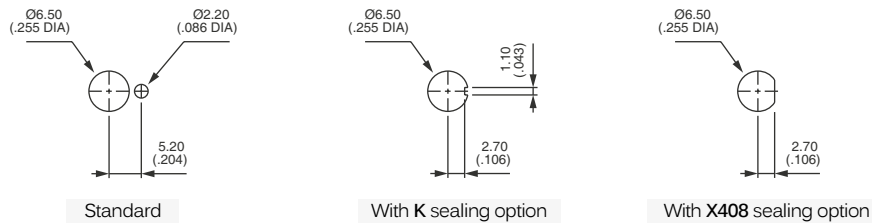


## ELECTRICAL FUNCTION

→ KEYWAY

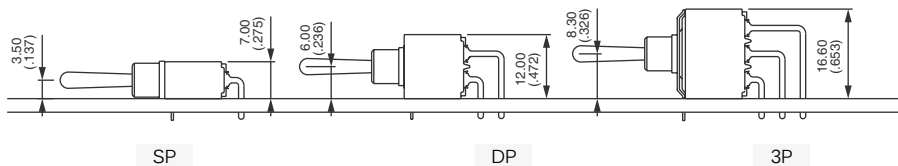


## PANEL CUT-OUT

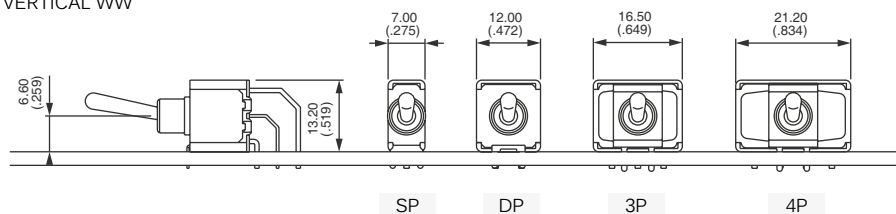


## PCB MOUNTING FOR RIGHT ANGLE TERMINAL MODELS

HORIZONTAL W



VERTICAL WW



# 5000 series

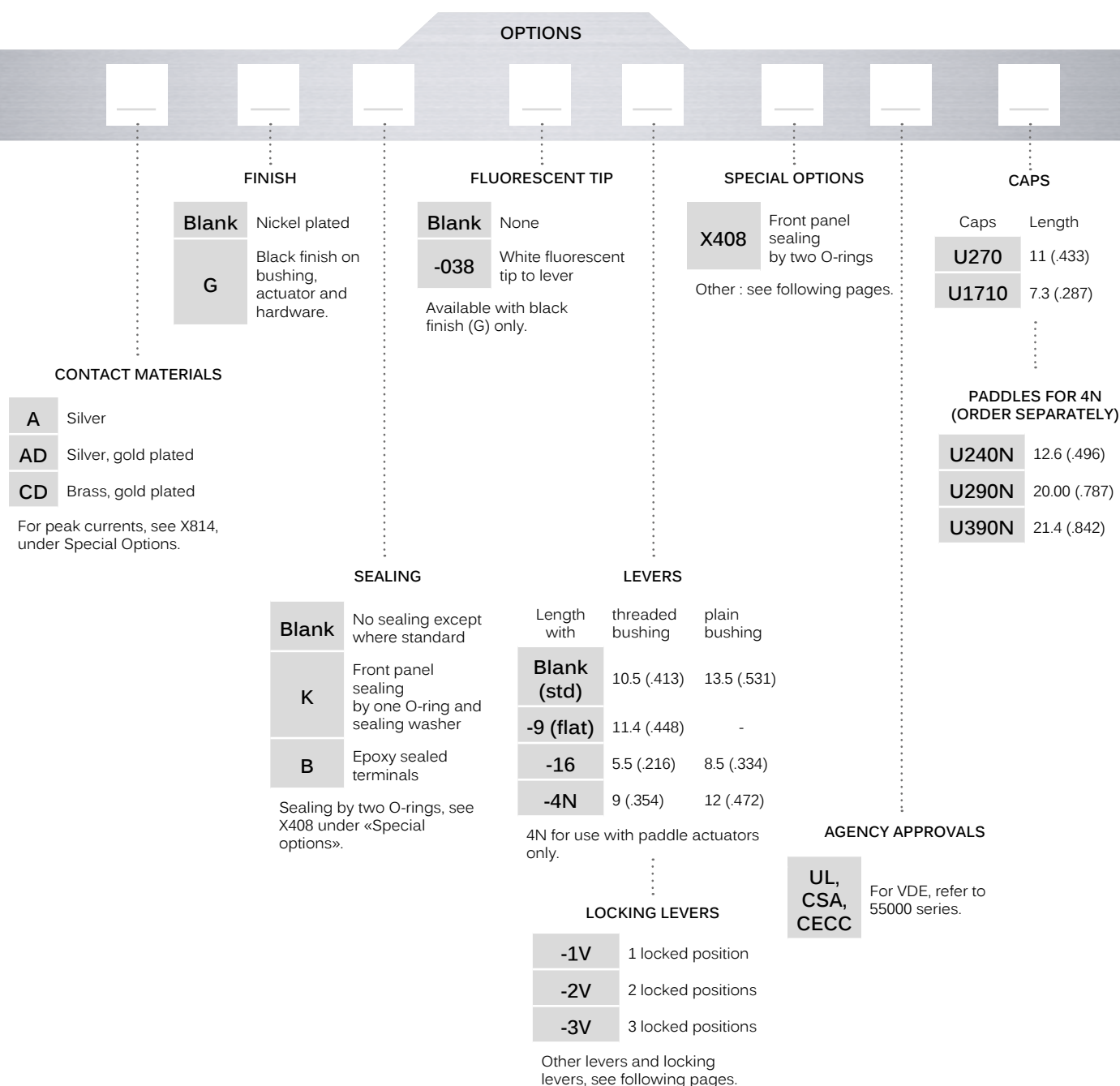
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## BUILD YOUR PART NUMBER

BASIC PART NUMBER

|                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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| <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">5</div> <p>.....</p> <p><b>SERIES</b></p> | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> </div> <p>.....</p> <p><b>NUMBER OF POLES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">3</td><td>Single pole</td></tr> <tr><td style="text-align: center;">4</td><td>Double pole</td></tr> <tr><td style="text-align: center;">5</td><td>Three pole</td></tr> <tr><td style="text-align: center;">6</td><td>Four pole</td></tr> </table> | 3   | Single pole | 4 | Double pole | 5 | Three pole | 6 | Four pole | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> </div> <p>.....</p> <p><b>TERMINALS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">Blank</td><td>Solder lugs or straight PC depending on model</td></tr> <tr><td style="text-align: center;">W</td><td>Right angle, horizontal mounting (5200 - 5400 switches)</td></tr> <tr><td style="text-align: center;">WW</td><td>Right angle, vertical mounting (5200 - 5400 switches)</td></tr> <tr><td style="text-align: center;">Y•</td><td>Bracket mounting (5200 switches)</td></tr> <tr><td style="text-align: center;">Z</td><td>Quick-connect (5200 - 5900 switches)</td></tr> </table> | Blank | Solder lugs or straight PC depending on model | W | Right angle, horizontal mounting (5200 - 5400 switches) | WW | Right angle, vertical mounting (5200 - 5400 switches) | Y• | Bracket mounting (5200 switches) | Z | Quick-connect (5200 - 5900 switches) | <div style="border: 1px solid black; 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padding: 5px; margin-bottom: 5px;"> </div> <p>.....</p> <p><b>CONNECTIONS FOR FUNCTION 4</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">TH</td><td>Standard</td></tr> <tr><td style="text-align: center;">CT</td><td>Reversed</td></tr> </table> <p>For functions 4, 4-1R, 4-2R (leave blank for all other functions).<br/>Wiring diagrams, see Technical information on website.</p> | TH | Standard | CT | Reversed |
| 3                                                                                                                 | Single pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 4                                                                                                                 | Double pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 5                                                                                                                 | Three pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 6                                                                                                                 | Four pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| Blank                                                                                                             | Solder lugs or straight PC depending on model                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| W                                                                                                                 | Right angle, horizontal mounting (5200 - 5400 switches)                                                                                                                                                                                                                                                                                                                                                                                                                             |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| WW                                                                                                                | Right angle, vertical mounting (5200 - 5400 switches)                                                                                                                                                                                                                                                                                                                                                                                                                               |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| Y•                                                                                                                | Bracket mounting (5200 switches)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| Z                                                                                                                 | Quick-connect (5200 - 5900 switches)                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 1R                                                                                                                | ON ON MOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 2R                                                                                                                | MOM ON MOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 0                                                                                                                 | Straight PC terminals, 5.08 (.200) terminal spacing                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 2                                                                                                                 | Straight PC terminals, 4.70 (.185) terminal spacing, right angle or quick-connect                                                                                                                                                                                                                                                                                                                                                                                                   |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 4                                                                                                                 | Straight PC terminals, 4 (.157) terminal spacing or right angle terminals                                                                                                                                                                                                                                                                                                                                                                                                           |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 6                                                                                                                 | Solder lug terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                               |   |                                                         |    |                                                       |    |                                  |   |                                      |                                                                                                                                                                                                                                                                                                                                                        |    |           |    |        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|
| 7                                                                                                                 | Solder lug terminals, with <b>flatted</b> bushing                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 9                                                                                                                 | Straight PC or quick-connect terminals, with <b>flatted</b> bushing, 4.70 (.185) terminal spacing                                                                                                                                                                                                                                                                                                                                                                                   |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 6                                                                                                                 | ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -   | ON          |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 9                                                                                                                 | ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OFF | ON          |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 7                                                                                                                 | MOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | OFF | MOM         |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 8                                                                                                                 | ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OFF | MOM         |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 2                                                                                                                 | ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -   | MOM         |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| 4                                                                                                                 | ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ON  | ON          |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
|                                                                                                                   | ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ON  | MOM ▲       |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
|                                                                                                                   | MOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ON  | MOM ▲       |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                       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|
| TH                                                                                                                | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                               |   |                                                         |    |                                                       |    |                                  |   |                                      |                                                                                                                                                                                                                                                                                                                                                        |    |           |    |        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|
| CT                                                                                                                | Reversed                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |             |   |             |   |            |   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                               |   |                                                         |    |                                                       |    |                                  |   |                                      |                                                                                                                                                                                                                                                                                                                                                        |    |           |    |        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|

Miniature toggle switches • threaded bushing Ø 6.35 mm or plain bushing



 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. See "Sealing Boots" section of website.
- 🔧 **Mounting accessories** : standard hardware supplied with all models with Ø 6.35 (1/4) or Ø 6 (.236) threaded bushing : 2 hex nuts 8 mm (.314) across flats, 1 locking ring and 1 lockwasher. Standard and special hardware is presented in the "Hardware" section of website.

# 5000 series

Miniature toggle switches • threaded bushing Ø 6.35 mm

## SOLDER LUG TERMINALS SINGLE POLE



|      | III | II  | I   |
|------|-----|-----|-----|
| 2-3  | ON  | -   | 1-2 |
| 5636 | ON  | -   | ON  |
| 5639 | ON  | OFF | ON  |
| 5637 | MOM | OFF | MOM |
| 5638 | ON  | OFF | MOM |
| 5632 | ON  | -   | MOM |

## SOLDER LUG TERMINALS DOUBLE POLE



|          | III | II  | I   |
|----------|-----|-----|-----|
| 2-3      | ON  | -   | 1-2 |
| 5-6      | ON  | -   | 4-5 |
| 5646     | ON  | -   | ON  |
| 5649     | ON  | OFF | ON  |
| 5647     | MOM | OFF | MOM |
| 5648     | ON  | OFF | MOM |
| 5642     | ON  | -   | MOM |
| 5644*    | ON  | ON  | ON  |
| 5644 1R* | ON  | ON  | MOM |
| 5644 2R* | MOM | ON  | MOM |

## SOLDER LUG TERMINALS THREE POLE



|      | III | II  | I   |
|------|-----|-----|-----|
| 2-3  | ON  | -   | 1-2 |
| 5-6  | ON  | -   | 4-5 |
| 8-9  | ON  | -   | 7-8 |
| 5656 | ON  | -   | ON  |
| 5659 | ON  | OFF | ON  |
| 5657 | MOM | OFF | MOM |
| 5658 | ON  | OFF | MOM |
| 5652 | ON  | -   | MOM |

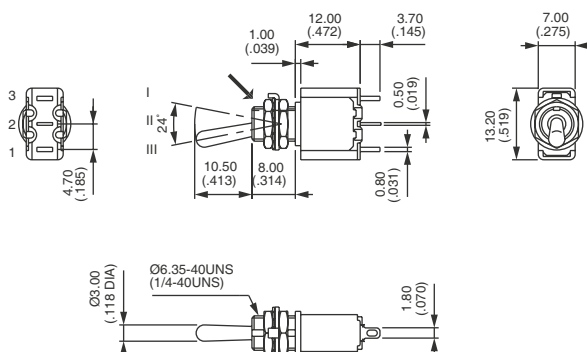
## SOLDER LUG TERMINALS FOUR POLE



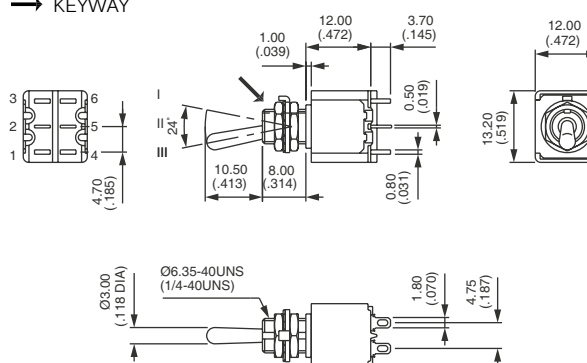
|          | III | II  | I     |
|----------|-----|-----|-------|
| 2-3      | ON  | -   | 1-2   |
| 5-6      | ON  | -   | 4-5   |
| 8-9      | ON  | -   | 7-8   |
| 11-12    | ON  | -   | 10-11 |
| 5666     | ON  | -   | ON    |
| 5669     | ON  | OFF | ON    |
| 5667     | MOM | OFF | MOM   |
| 5668     | ON  | OFF | MOM   |
| 5662     | ON  | -   | MOM   |
| 5664*    | ON  | ON  | ON    |
| 5664 1R* | ON  | ON  | MOM   |
| 5664 2R* | MOM | ON  | MOM   |

→ KEYWAY

Shown with standard lever

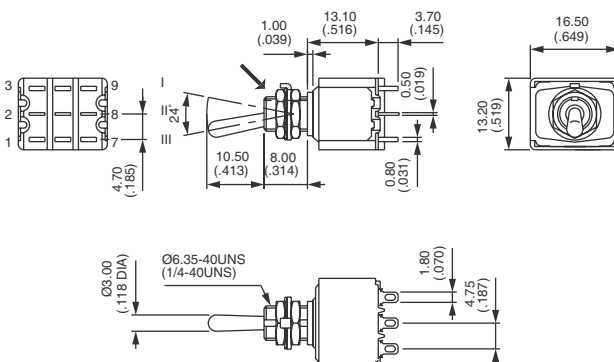


→ KEYWAY

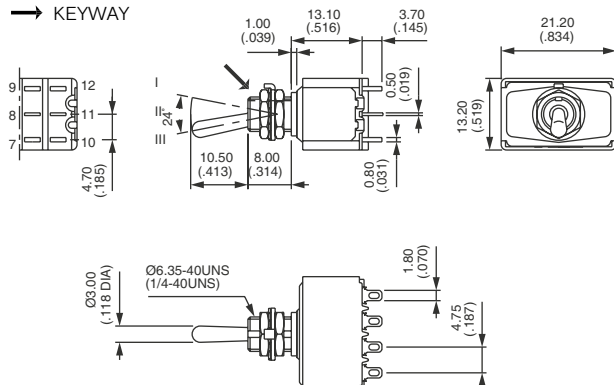


\* Function 4 : SP in DP case - specify CT or TH connections.

→ KEYWAY



→ KEYWAY



\* Function 4 : DP in 4P case - specify CT or TH connections.

All models above also available with flatted bushing : 5700 or with dia. 6 mm x 0.75 SI (.236 x 0.75 IS) : 5500.

# 5000 series

Miniature toggle switches •  
threaded bushing Ø 6.35 mm or plain bushing

## STRAIGHT PC TERMINALS - SPACING 4.7 (.185) SINGLE POLE



|        | III<br>2-3 | II  | I<br>1-2 |
|--------|------------|-----|----------|
| 5236 B | ON         | -   | ON       |
| 5239 B | ON         | OFF | ON       |
| 5237 B | MOM        | OFF | MOM      |
| 5238 B | ON         | OFF | MOM      |
| 5232 B | ON         | -   | MOM      |

## STRAIGHT PC TERMINALS - SPACING 4.7 (.185) DOUBLE POLE



|            | III<br>2-3<br>5-6 | II  | I<br>1-2<br>4-5 |
|------------|-------------------|-----|-----------------|
| 5246 B     | ON                | -   | ON              |
| 5249 B     | ON                | OFF | ON              |
| 5247 B     | MOM               | OFF | MOM             |
| 5248 B     | ON                | OFF | MOM             |
| 5242 B     | ON                | -   | MOM             |
| 5244 B*    | ON                | ON  | ON              |
| 5244 1R B* | ON                | ON  | MOM             |
| 5244 2R B* | MOM               | ON  | MOM             |

## STRAIGHT PC TERMINALS - SPACING 4.7 (.185) THREE POLE



|        | III<br>2-3<br>5-6<br>8-9 | II  | I<br>1-2<br>4-5<br>7-8 |
|--------|--------------------------|-----|------------------------|
| 5256 B | ON                       | -   | ON                     |
| 5259 B | ON                       | OFF | ON                     |
| 5257 B | MOM                      | OFF | MOM                    |
| 5258 B | ON                       | OFF | MOM                    |
| 5252 B | ON                       | -   | MOM                    |

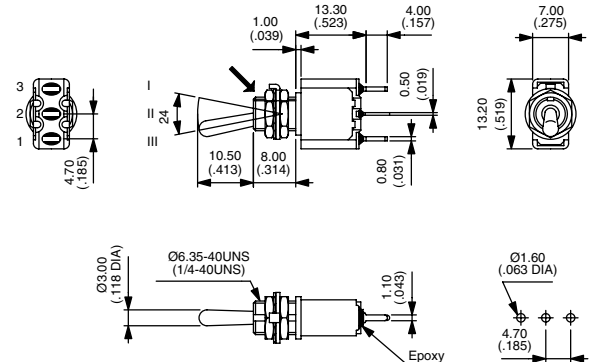
## STRAIGHT PC TERMINALS - SPACING 4.7 (.185) FOUR POLE



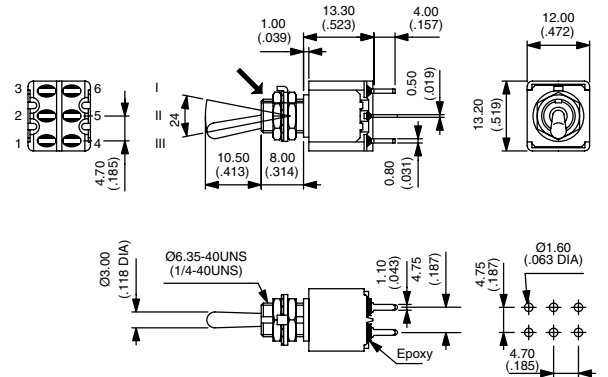
|            | III<br>2-3<br>5-6<br>8-9<br>11-12 | II  | I<br>1-2<br>4-5<br>7-8<br>10-11 |
|------------|-----------------------------------|-----|---------------------------------|
| 5266 B     | ON                                | -   | ON                              |
| 5269 B     | ON                                | OFF | ON                              |
| 5267 B     | MOM                               | OFF | MOM                             |
| 5268 B     | ON                                | OFF | MOM                             |
| 5262 B     | ON                                | -   | MOM                             |
| 5264 B*    | ON                                | ON  | ON                              |
| 5264 1R B* | ON                                | ON  | MOM                             |
| 5264 2R B* | MOM                               | ON  | MOM                             |

→ KEYWAY

Shown with standard lever

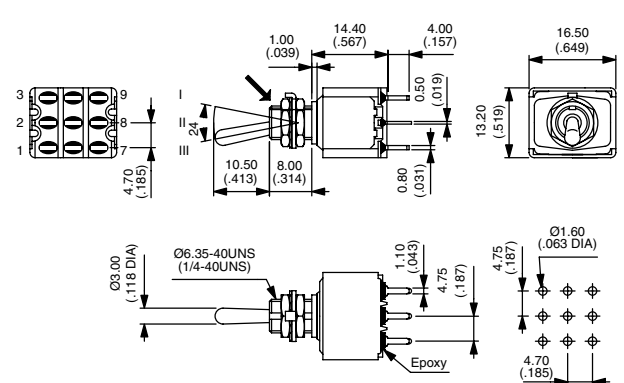


→ KEYWAY

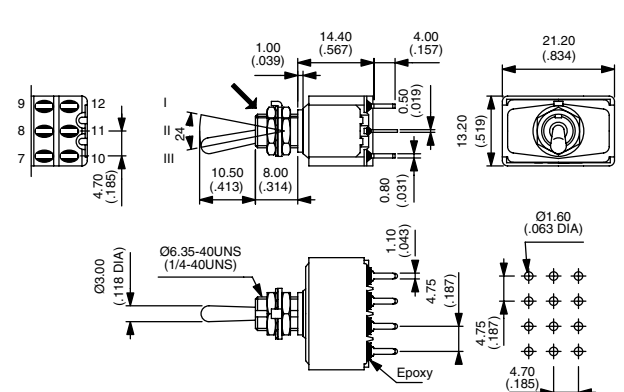


\* Function 4 : SP in DP case - specify CT or TH connections.

→ KEYWAY



→ KEYWAY



\* Function 4 : SP in DP case - specify CT or TH connections.

All models above : Epoxy sealed terminals standard (B).

All models above also available with flatted bushing : 5900 or with terminal spacing 4 mm (.157) : 5400.

# 5000 series

Miniature toggle switches •  
threaded bushing Ø 6.35 mm or plain bushing

## STRAIGHT PC TERMINALS SPACING 5.08 (.200)



|             |             | III<br>2-3<br>5-6 | II<br>- | I<br>1-2<br>4-5 |
|-------------|-------------|-------------------|---------|-----------------|
| Single pole | Double pole |                   |         |                 |
| 5036 B      | 5046 B      | ON                | -       | ON              |
| 5039 B      | 5049 B      | ON                | OFF     | ON              |
| 5037 B      | 5047 B      | MOM               | OFF     | MOM             |
| 5038 B      | 5048 B      | ON                | OFF     | MOM             |
| 5032 B      | 5042 B      | ON                | -       | MOM             |
|             | 5044* B     | ON                | ON      | ON              |
|             | 5044 1R* B  | ON                | ON      | MOM             |
|             | 5044 2R* B  | MOM               | ON      | MOM             |

Epoxy sealed terminals standard (B).

## QUICK-CONNECT TERMINALS SINGLE POLE



|         | III<br>2-3<br>ON | II<br>-<br>OFF | I<br>1-2<br>ON |
|---------|------------------|----------------|----------------|
| 5236Z B | ON               | -              | ON             |
| 5239Z B | ON               | OFF            | ON             |
| 5237Z B | MOM              | OFF            | MOM            |
| 5238Z B | ON               | OFF            | MOM            |
| 5232Z B | ON               | -              | MOM            |

Single and double pole models also available with flatted bushing : 5900Z.  
Epoxy sealed terminals standard (B).

## QUICK-CONNECT TERMINALS DOUBLE POLE



|             | III<br>2-3<br>5-6 | II<br>- | I<br>1-2<br>4-5 |
|-------------|-------------------|---------|-----------------|
| 5246Z B     | ON                | -       | ON              |
| 5249Z B     | ON                | OFF     | ON              |
| 5247Z B     | MOM               | OFF     | MOM             |
| 5248Z B     | ON                | OFF     | MOM             |
| 5242Z B     | ON                | -       | MOM             |
| 5244Z* B    | ON                | ON      | ON              |
| 5244Z 1R* B | ON                | ON      | MOM             |
| 5244Z 2R* B | MOM               | ON      | MOM             |

Epoxy sealed terminals standard (B).

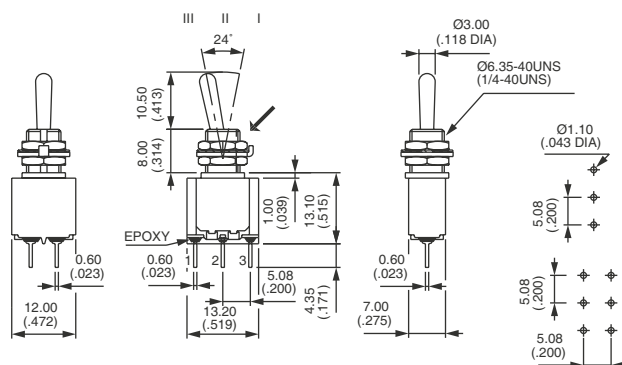
## RIGHT ANGLE TERMINALS - HORIZONTAL SINGLE POLE



|       | III<br>2-3<br>ON | II<br>-<br>OFF | I<br>1-2<br>ON |
|-------|------------------|----------------|----------------|
| 5236W | ON               | -              | ON             |
| 5239W | ON               | OFF            | ON             |
| 5237W | MOM              | OFF            | MOM            |
| 5238W | ON               | OFF            | MOM            |
| 5232W | ON               | -              | MOM            |

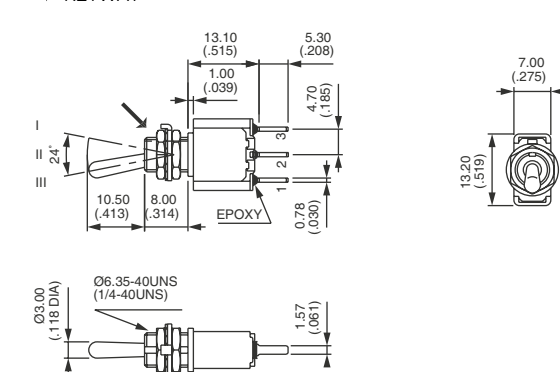
Also available with terminal spacing 4 mm (.157) instead of 4.7 (.185) : 5400W.

→ KEYWAY

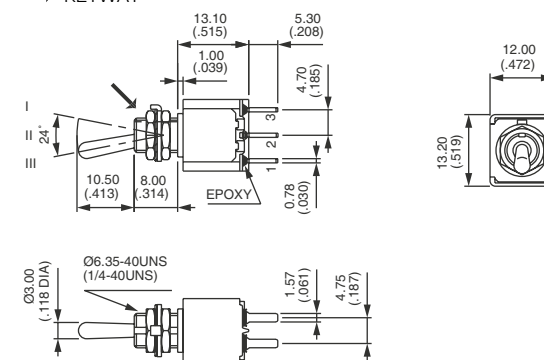


\* Function 4 : SP in DP case - specify CT or TH connections.

→ KEYWAY

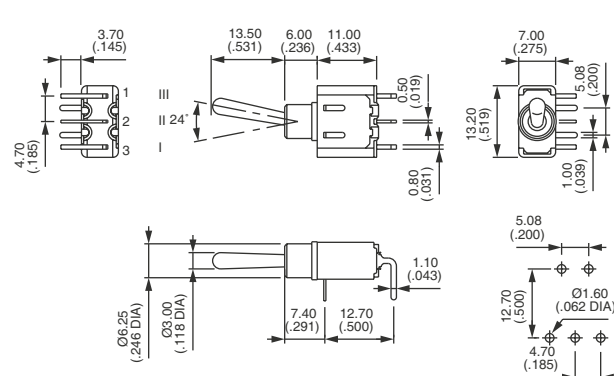


→ KEYWAY



\* Function 4 : SP in DP case - specify CT or TH connections.

→ KEYWAY



# 5000 series

Miniature toggle switches •  
plain bushing

## RIGHT ANGLE TERMINALS - HORIZONTAL DOUBLE POLE



|           | III | II  | I   |
|-----------|-----|-----|-----|
|           | 2-3 |     | 1-2 |
|           | 5-6 |     | 4-5 |
| 5246W     | ON  | -   | ON  |
| 5249W     | ON  | OFF | ON  |
| 5247W     | MOM | OFF | MOM |
| 5248W     | ON  | OFF | MOM |
| 5242W     | ON  | -   | MOM |
| 5244W*    | ON  | ON  | ON  |
| 5244W 1R* | ON  | ON  | MOM |
| 5244W 2R* | MOM | ON  | MOM |

Also available with terminal spacing 4 mm (.157) instead of 4.7 (.185) : **5400W**.

## RIGHT ANGLE TERMINALS - HORIZONTAL THREE POLE



|       | III | II  | I   |
|-------|-----|-----|-----|
|       | 2-3 |     | 1-2 |
|       | 5-6 |     | 4-5 |
|       | 8-9 |     | 7-8 |
| 5256W | ON  | -   | ON  |
| 5259W | ON  | OFF | ON  |
| 5257W | MOM | OFF | MOM |
| 5258W | ON  | OFF | MOM |
| 5252W | ON  | -   | MOM |

## RIGHT ANGLE TERMINALS - VERTICAL SINGLE POLE



|          | III | II  | I   |
|----------|-----|-----|-----|
|          | 2-3 |     | 1-2 |
| 5236WW   | ON  | -   | ON  |
| 5239WW   | ON  | OFF | ON  |
| 5237WW   | MOM | OFF | MOM |
| 5238WW** | ON  | OFF | MOM |
| 5232WW** | ON  | -   | MOM |

## RIGHT ANGLE TERMINALS - VERTICAL DOUBLE POLE



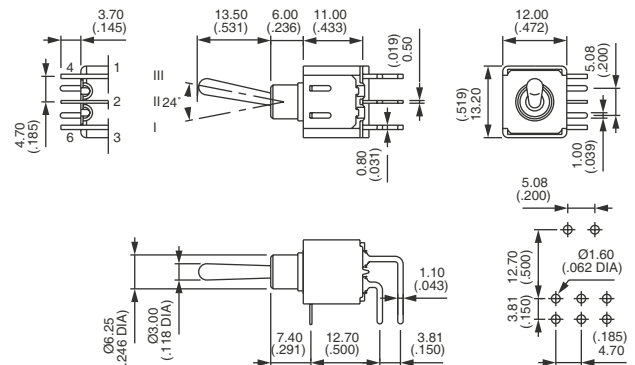
|            | III | II  | I   |
|------------|-----|-----|-----|
|            | 2-3 |     | 1-2 |
|            | 5-6 |     | 4-5 |
| 5246WW     | ON  | -   | ON  |
| 5249WW     | ON  | OFF | ON  |
| 5247WW     | MOM | OFF | MOM |
| 5248WW**   | ON  | OFF | MOM |
| 5242WW**   | ON  | -   | MOM |
| 5244WW*    | ON  | ON  | ON  |
| 5244WW 1R* | ON  | ON  | MOM |
| 5244WW 2R* | MOM | ON  | MOM |

Vertical right angle models above : \* Function 4 : SP in DP case, DP in 4P case - specify CT or TH connections.

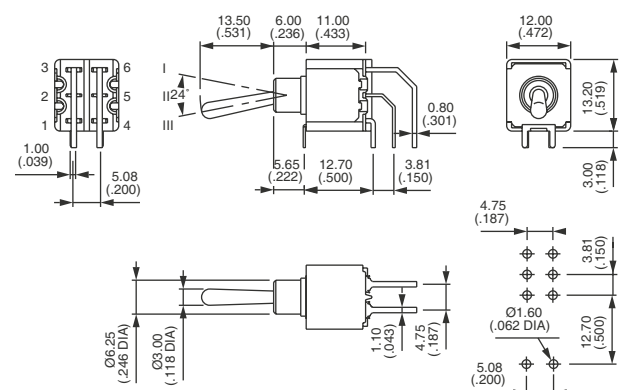
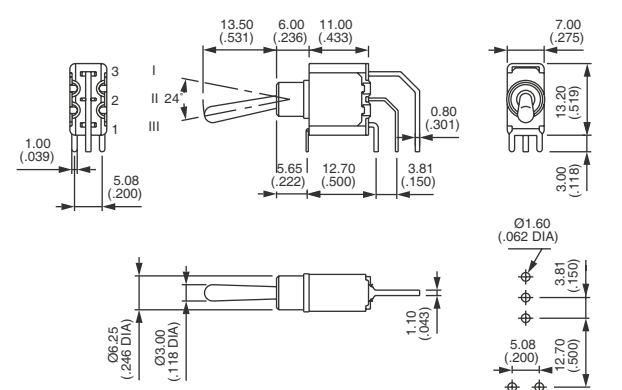
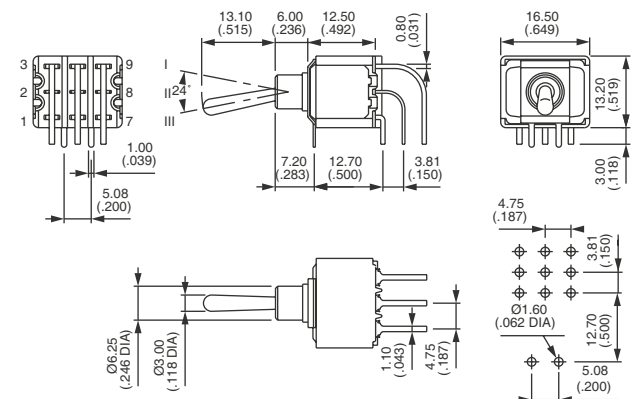
\*\* Functions 2 and 8 : reversed connection available, consult factory.

Also available with pin spacing 2.54 mm (.100) instead of 3.81 mm (.150) : **5400WW**

Shown with standard lever



\* Function 4 : SP in DP case - specify CT or TH connections.



# 5000 series

Miniature toggle switches •  
plain bushing

## RIGHT ANGLE TERMINALS - VERTICAL THREE POLE



|          | III | II  | I   |
|----------|-----|-----|-----|
|          | 2-3 |     | 1-2 |
|          | 5-6 |     | 4-5 |
|          | 8-9 |     | 7-8 |
| 5256WW   | ON  | -   | ON  |
| 5259WW   | ON  | OFF | ON  |
| 5257WW   | MOM | OFF | MOM |
| 5258WW** | ON  | OFF | MOM |
| 5252WW** | ON  | -   | MOM |

\*\* Functions 2 and 8 : reversed connection available, consult factory.

## RIGHT ANGLE TERMINALS - VERTICAL FOUR POLE



|            | III   | II  | I     |
|------------|-------|-----|-------|
|            | 2-3   |     | 1-2   |
|            | 5-6   |     | 4-5   |
|            | 8-9   |     | 7-8   |
|            | 11-12 |     | 10-11 |
| 5266WW     | ON    | -   | ON    |
| 5269WW     | ON    | OFF | ON    |
| 5267WW     | MOM   | OFF | MOM   |
| 5268WW**   | ON    | OFF | MOM   |
| 5262WW**   | ON    | -   | MOM   |
| 5264WW*    | ON    | ON  | ON    |
| 5264WW 1R* | ON    | ON  | MOM   |
| 5264WW 2R* | MOM   | ON  | MOM   |

Vertical right angle models above also available with terminal spacing 2.54 mm (.100) instead of 3.81 mm (.150) : 5400WW.

## SHORT BRACKET - WIDTH 15.75 (.620) SINGLE POLE



|         | III | II  | I   |
|---------|-----|-----|-----|
|         | 2-3 |     | 1-2 |
| 5236Y B | ON  | -   | ON  |
| 5239Y B | ON  | OFF | ON  |
| 5237Y B | MOM | OFF | MOM |
| 5238Y B | ON  | OFF | MOM |
| 5232Y B | ON  | -   | MOM |

Epoxy sealed terminals standard (B).

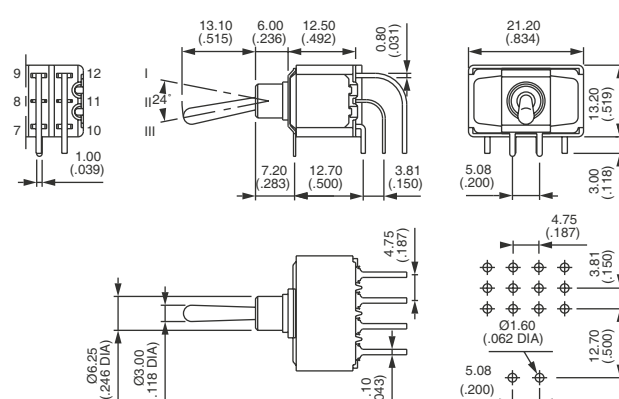
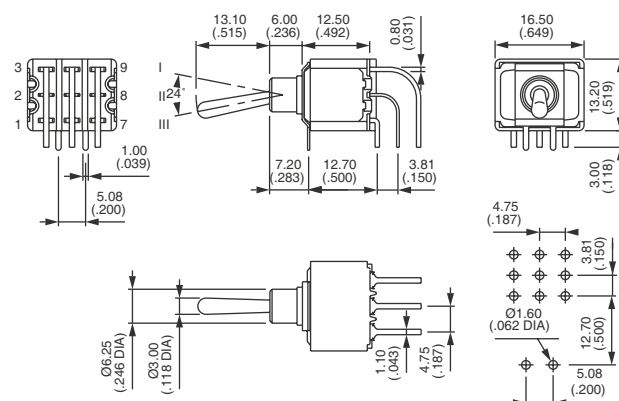
## SHORT BRACKET - WIDTH 15.75 (.620) DOUBLE POLE



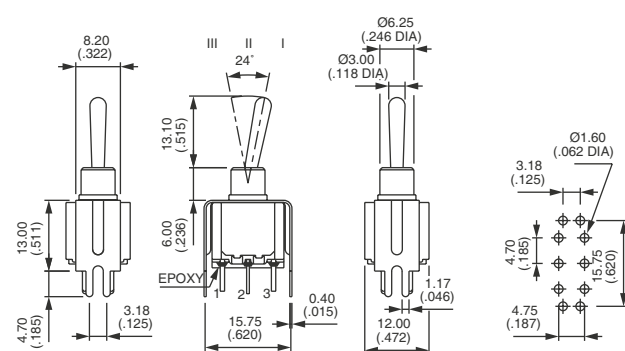
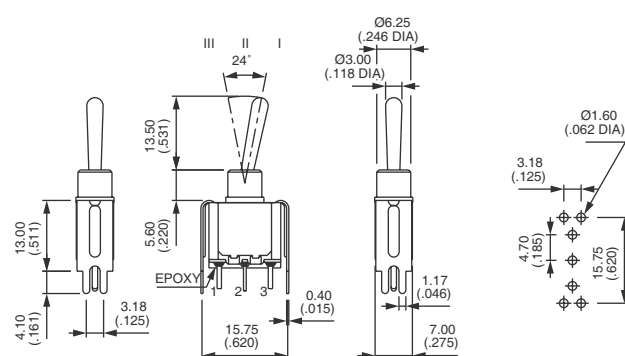
|             | III | II  | I   |
|-------------|-----|-----|-----|
|             | 2-3 |     | 1-2 |
|             | 5-6 |     | 4-5 |
| 5246Y B     | ON  | -   | ON  |
| 5249Y B     | ON  | OFF | ON  |
| 5247Y B     | MOM | OFF | MOM |
| 5248Y B     | ON  | OFF | MOM |
| 5242Y B     | ON  | -   | MOM |
| 5244Y B*    | ON  | ON  | ON  |
| 5244Y 1R B* | ON  | ON  | MOM |
| 5244Y 2R B* | MOM | ON  | MOM |

Epoxy sealed terminals standard (B).

Shown with standard lever



\* Function 4 : SP in DP case, DP in 4P case - specify CT or TH connections.



\*Function 4 : SP in DP case - specify CT or TH connections.

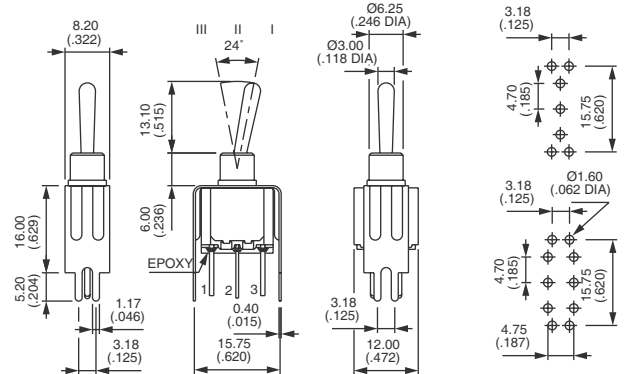
# 5000 series

Miniature toggle switches •  
plain bushing

## TALL BRACKET - WIDTH 15.75 (.620)



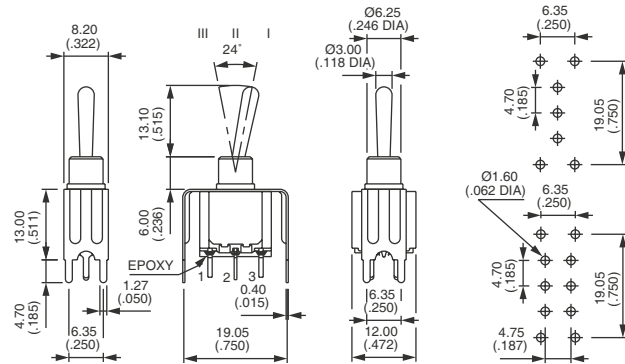
| Single pole | Double pole  | III<br>2-3<br>5-6 | II  | I<br>1-2<br>4-5 |
|-------------|--------------|-------------------|-----|-----------------|
| 5236Y4 B    | 5246Y4 B     | ON                | -   | ON              |
| 5239Y4 B    | 5249Y4 B     | ON                | OFF | ON              |
| 5237Y4 B    | 5247Y4 B     | MOM               | OFF | MOM             |
| 5238Y4 B    | 5248Y4 B     | ON                | OFF | MOM             |
| 5232Y4 B    | 5242Y4 B     | ON                | -   | MOM             |
|             | 5244Y4 B*    | ON                | ON  | ON              |
|             | 5244Y4 1R B* | ON                | ON  | MOM             |
|             | 5244Y4 2R B* | MOM               | ON  | MOM             |



## SHORT BRACKET - WIDTH 19.05 (.750)



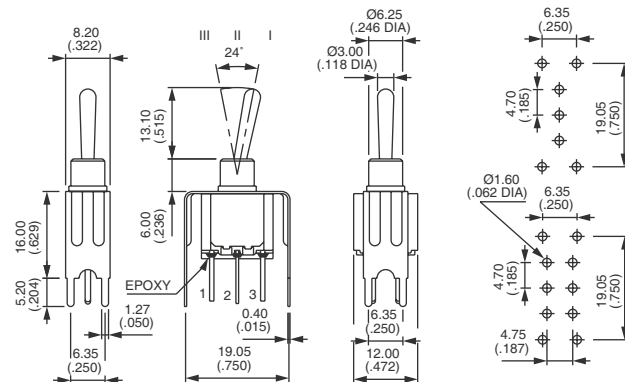
| Single pole | Double pole  | III<br>2-3<br>5-6 | II  | I<br>1-2<br>4-5 |
|-------------|--------------|-------------------|-----|-----------------|
| 5236Y6 B    | 5246Y6 B     | ON                | -   | ON              |
| 5239Y6 B    | 5249Y6 B     | ON                | OFF | ON              |
| 5237Y6 B    | 5247Y6 B     | MOM               | OFF | MOM             |
| 5238Y6 B    | 5248Y6 B     | ON                | OFF | MOM             |
| 5232Y6 B    | 5242Y6 B     | ON                | -   | MOM             |
|             | 5244Y6 B*    | ON                | ON  | ON              |
|             | 5244Y6 1R B* | ON                | ON  | MOM             |
|             | 5244Y6 2R B* | MOM               | ON  | MOM             |



## TALL BRACKET - WIDTH 19.05 (.750)



| Single pole | Double pole  | III<br>2-3<br>5-6 | II  | I<br>1-2<br>4-5 |
|-------------|--------------|-------------------|-----|-----------------|
| 5236Y7 B    | 5246Y7 B     | ON                | -   | ON              |
| 5239Y7 B    | 5249Y7 B     | ON                | OFF | ON              |
| 5237Y7 B    | 5247Y7 B     | MOM               | OFF | MOM             |
| 5238Y7 B    | 5248Y7 B     | ON                | OFF | MOM             |
| 5232Y7 B    | 5242Y7 B     | ON                | -   | MOM             |
|             | 5244Y7 B*    | ON                | ON  | ON              |
|             | 5244Y7 1R B* | ON                | ON  | MOM             |
|             | 5244Y7 2R B* | MOM               | ON  | MOM             |



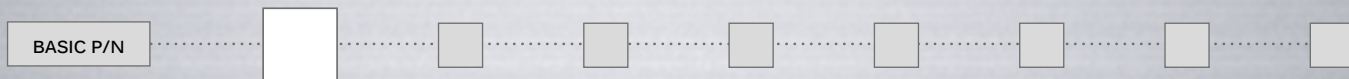
Epoxy sealed terminals standard (B).

\* Function 4 : SP in DP case - specify CT or TH connections.

# 5000 series

Miniature toggle switches •  
threaded bushing Ø 6.35 mm or plain bushing

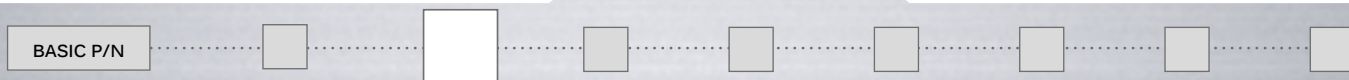
## CONTACT MATERIALS



- A** Silver  
**AD** Silver, gold plated  
**CD** Brass, gold plated

Special contacts for peak currents : see X814, under "Special Options".

## FINISH



- Blank** Nickel plated  
**G** Black finish on bushing, actuator and hardware

## SEALING



- Blank** • For 5000 and 5200Z models : epoxy sealed terminals standard  
• Other models : no sealing required

- K** Front panel sealing by one 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.

⚠ Available on models with Ø 6.35 (1/4) **threaded bushing only**.

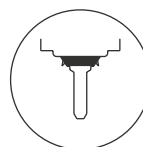
Not available with levers 8, 9, 12, 22, 23.

- B** Epoxy sealed terminals

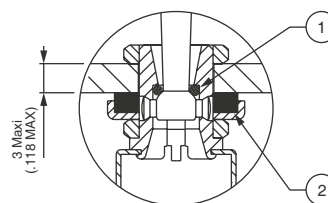
- KB** Combined sealings

Sealing by two O-rings, see X408 under "Special options".

### OPTION B



### OPTION K



① O-ring

② Sealing washer

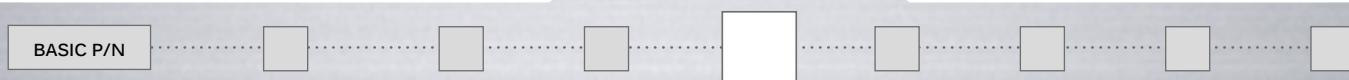


K with Ø 6.35 (1/4)  
keyway bushing  
includes washer **U360**

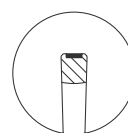


K with Ø 6.35 (1/4)  
flatted bushing  
includes washer **U5141**

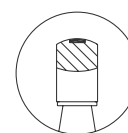
## FLUORESCENT TIP



- Blank** None  
**-038** White fluorescent tip.  
Becomes luminous when submitted to ultraviolet rays.  
⚠ Available with black finish (option G) only.  
Consult factory for levers available with this option.



-19  
Standard lever



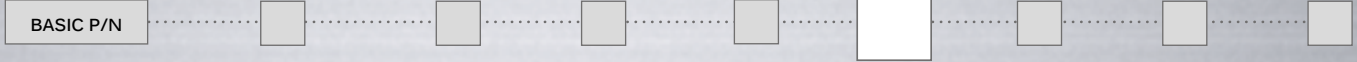
Locking lever

Same dimensions as  
standard actuator on  
next page.

# 5000 series

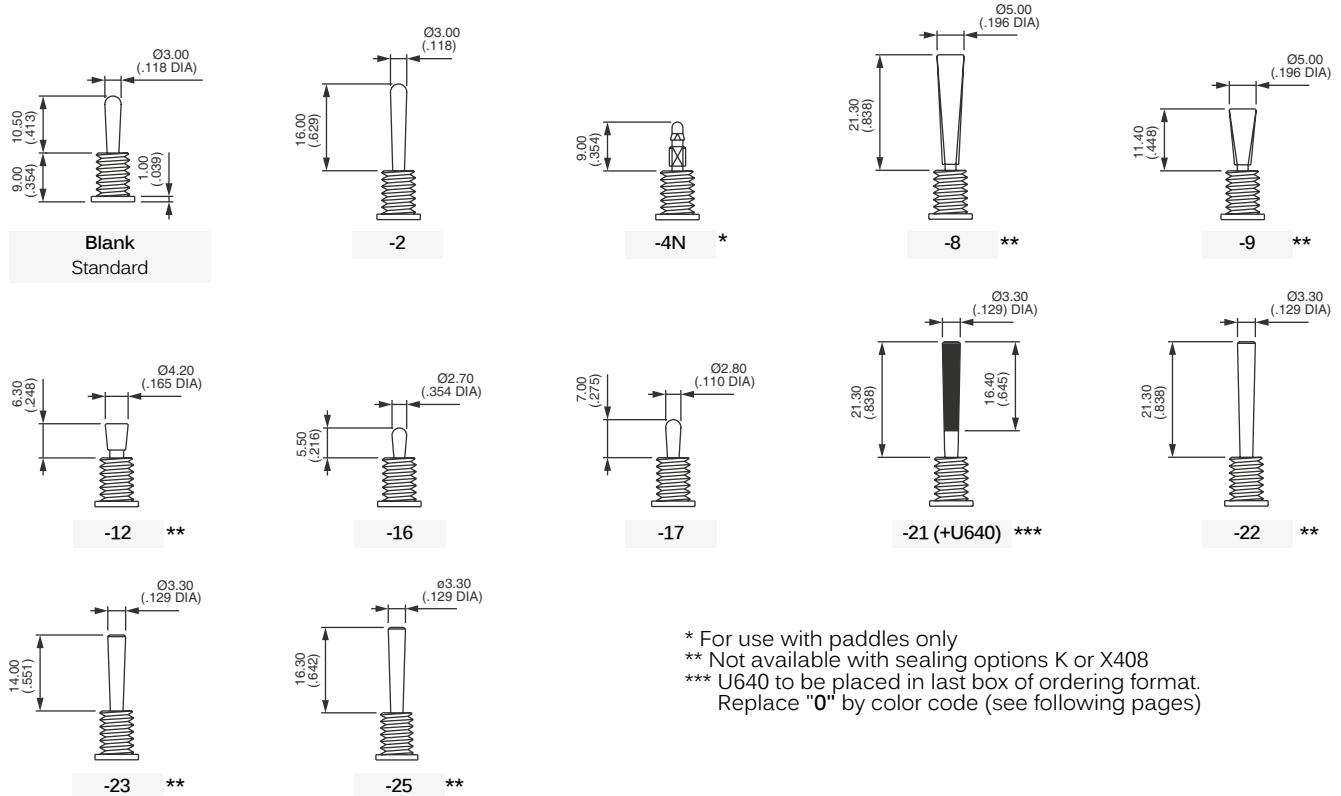
Miniature toggle switches •  
threaded bushing Ø 6.35 mm or plain bushing

## ACTUATORS



Dash compulsory before lever code.

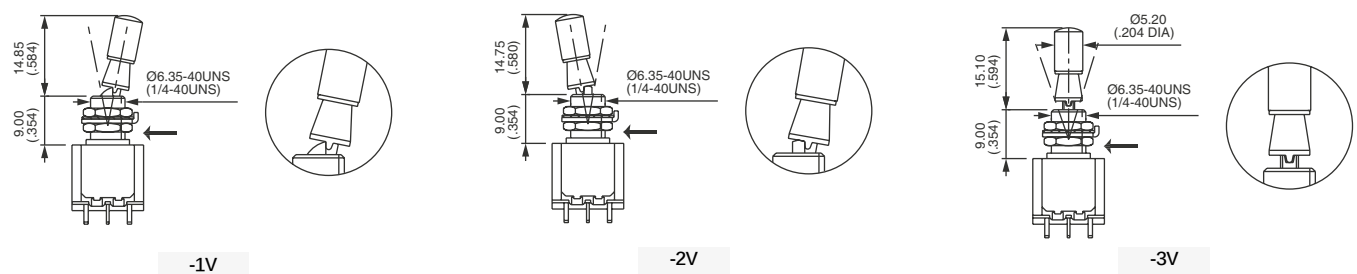
LEVERS FOR THREADED BUSHING MODELS Ø 6,35 (1/4) OR Ø 6 (.236)



LOCKING LEVERS FOR THREADED BUSHING MODELS Ø 6,35 (1/4)

- 1V 1 locked position (function 6)
- 2V 2 locked position (function 6)
- 3V 3 locked positions (functions 9 and 4)

→ KEYWAY



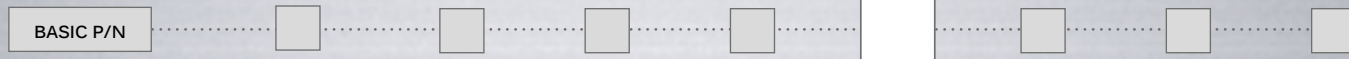
Consult factory for other locking lever options.

For plain bushing models, see X386 or X916 under "Special options" on the following pages.

# 5000 series

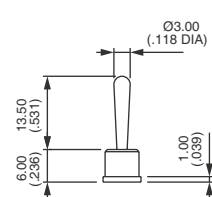
Miniature toggle switches •  
threaded bushing Ø 6.35 mm or plain bushing

## ACTUATORS (CONTINUED)

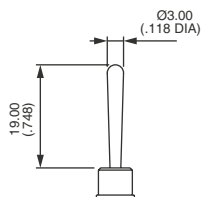


LEVERS FOR PLAIN BUSHING MODELS : W - WW AND Y

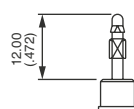
Lever length : With bracket or mounting plate lever length will be reduced by 0.4 mm (.015) as a rule. Please refer to switch technical drawings of basic models pages for details.



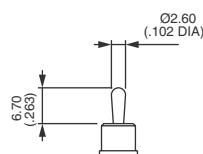
Blank  
Standard



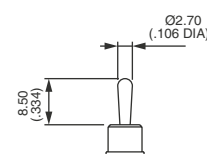
-2



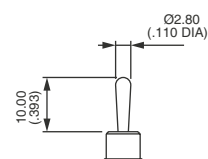
-4N



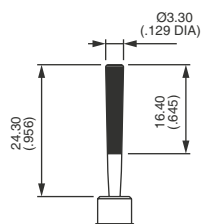
-7



-16



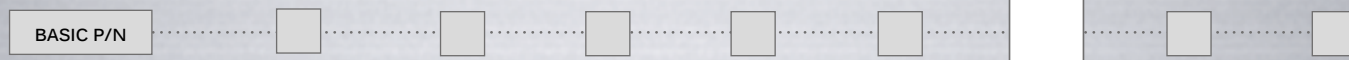
-17



-21 (+U640) \*

\* U640 to be placed in last box of ordering format.  
For actuator colors, replace «0» by color code (see following pages)

## SPECIAL OPTIONS



**Blank** No special requirement

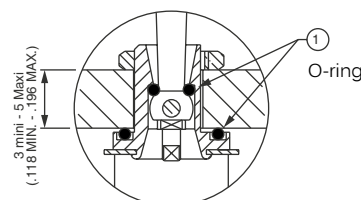
**X408** Front panel sealing by two O-rings. Flatted bushing for precise orientation. Protects the switch against water and dust. Panel seal withstands 1 bar pressure and remains sealed even when switch is operated. Includes sealed terminals (option B).

⚠ Available only on models with threaded bushing.  
Not available with levers 8, 9, 12, 22, 23.

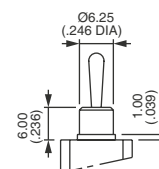
**X371** Plain bushing Ø 6.25 mm (.246) (instead of standard threaded bushing).

**X372** Threaded bushing Ø 6.35 (1/4). Height 7 mm (.274).

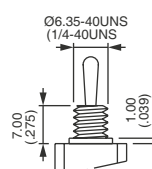
**X386** Threaded bushing Ø 6.35 mm (1/4) to replace plain bushing on models W - WW and Y.



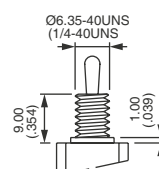
X408



X371



X372

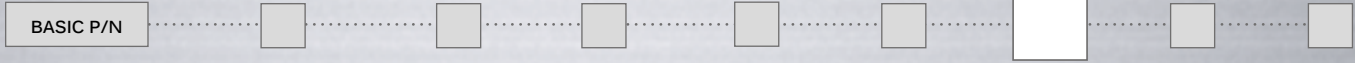


X386

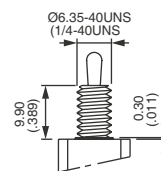
# 5000 series

Miniature toggle switches •  
threaded bushing Ø 6.35 mm or plain bushing

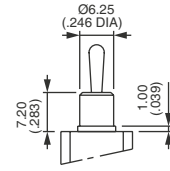
## SPECIAL OPTIONS (CONTINUED)



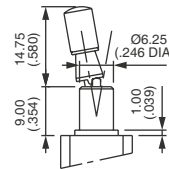
- X442** Threaded bushing Ø 6.35 mm (1/4) - **Height 9.9 mm (.389)**.
- X445** Plain bushing. **Height 7.2 mm (.283)** - for W, WW and Y models.  
Available with the same levers, insulating cap and paddles as X404.\*
- X601** **Silver plated brass contacts.**  
Current/voltage rating for an electrical life of 20,000 cycles :  
0.5 A 30 VDC. Minimum quantity : 5,000 pieces per model and shipment.
- X681** **Satin chrome** actuator
- X814** **Switches for peak currents** - single and double pole.  
On request.
- X902** Plain bushing Ø 6.25 mm (.246) - **Height 9 mm (.354)** (not available with K sealing option).
- X916** Locking lever on model with plain bushing.
- X404** **Horizontal right angle (W) with reduced overall dimensions** (shown with lever -16)



X442



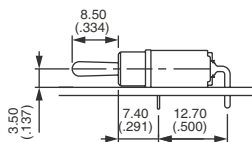
X445



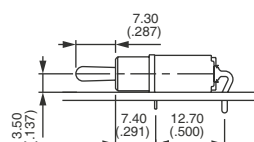
X916

⚠ With options X372, X386, X442 and X445, the lever lengths indicated on previous pages will be modified.

## OPTION X404



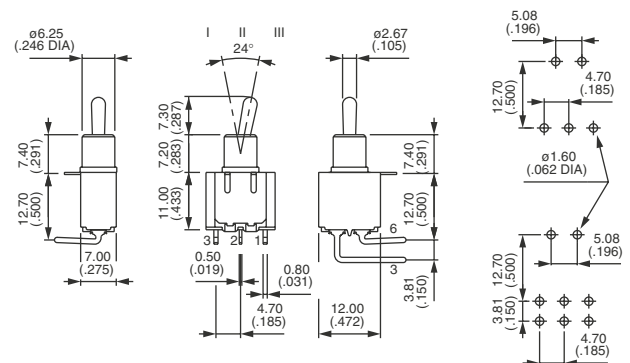
Standard W



Option X404



| Single pole | Double pole    | III | II  | I   |
|-------------|----------------|-----|-----|-----|
| 5236W X404  | 5246W X404     | 2-3 |     | 1-2 |
| 5239W X404  | 5249W X404     | 5-6 | -   | 4-5 |
| 5237W X404  | 5247W X404     | ON  | OFF | ON  |
| 5238W X404  | 5248W X404     | MOM | OFF | MOM |
| 5232W X404  | 5242W X404     | ON  | -   | MOM |
|             | 5244W X404*    | ON  | ON  | ON  |
|             | 5244W 1R X404* | ON  | ON  | MOM |
|             | 5244W 2R X404* | MOM | ON  | MOM |

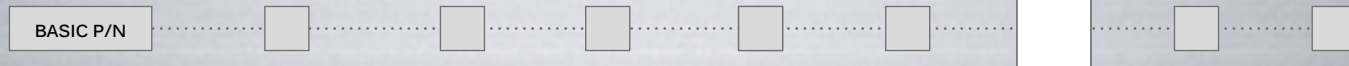


\* Function 4 : SP in DP case - specify CT or TH connections

# 5000 series

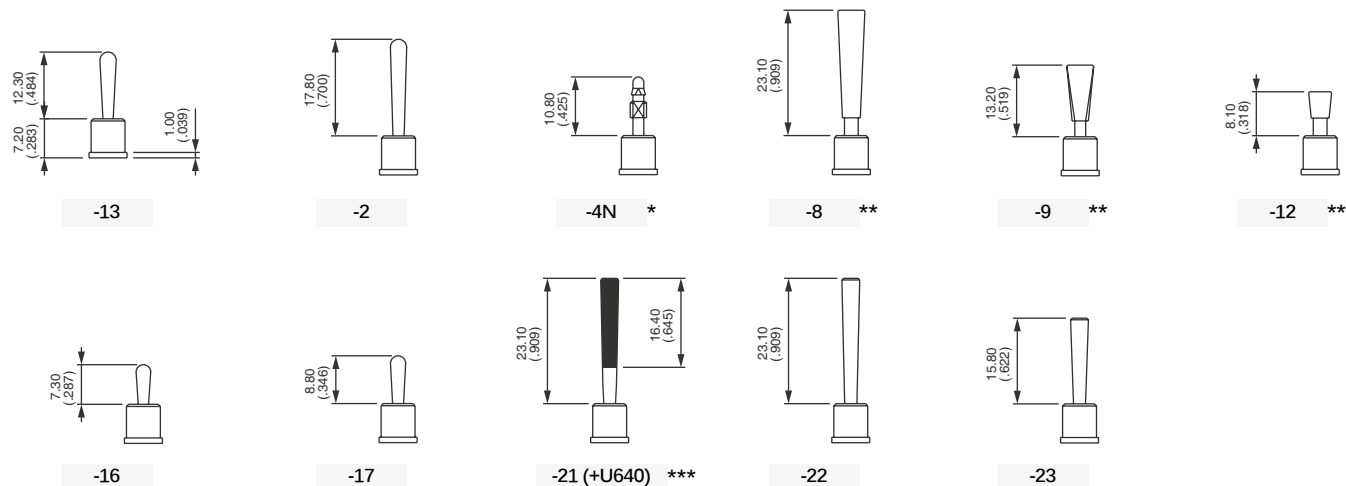
Miniature toggle switches •  
threaded bushing Ø 6.35 mm or plain bushing

## SPECIAL OPTIONS (CONTINUED)



### OPTION X404 (CONTINUED)

LEVERS LENGTHS FOR X404 (ALSO AVAILABLE WITH X445 OPTION)



\* For paddles

\*\* Levers -8, -9 and -12 not available with function 2 (ON-MOM)

\*\*\* U640 to be placed in last box of ordering format. Replace "0" with color code.

### Insulating caps and paddles for X404 :

Insulating cap U1710 available with lever style 16.

Paddles U240N, U290N and U390N available with lever style 4N. See details on next page..

## AGENCY APPROVALS



**Blank** No agency approval required.

**UL** All standard models

**CSA**

**CECC** Standard models 5600 - 5200

**Availability** : consult factory for details of approved combinations or options.

**Marking** : to order switches marked UL, CSA or CECC, complete above box with desired approvals, in this order & without space (ex. : ULCSACECC). **VDE (with UL & CSA)** : Refer to 55000 series.

**Preferential lists** : see specifications.

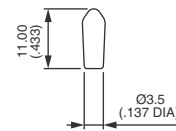
# 5000 series

Miniature toggle switches •  
threaded bushing Ø 6.35 mm or plain bushing

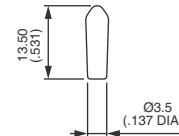
## INSULATING CAPS



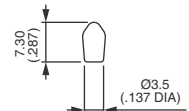
- U270** For standard lever & threaded bushing only  
**U1040** For standard lever & plain bushing only  
**U1710** For lever 17 and threaded bushing  
 For lever 7 and plain bushing



U270



U1040



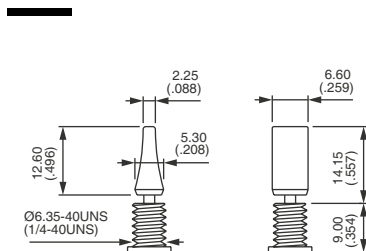
U1710

For cap colors, replace "0" with number :

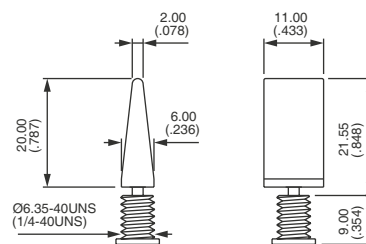
- 1 Blue
- 1/4 Dark blue
- 2 Black
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red
- 7/1 White
- 9 Orange

## PADDLES

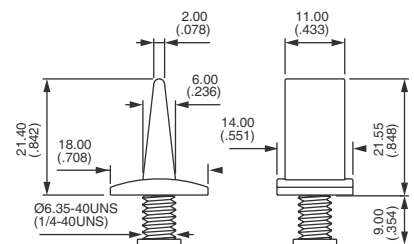
For use with lever 4N only. Shown with standard threaded bushing. Order separately.



U240N



U290N



U390N

For cap colors, replace "0" with number :

- 1 Blue
- 1/4 Dark blue
- 2 Black
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red
- 7 Ivory
- 7/1 White
- 9 Orange

# Mouser Electronics

Authorized Distributor

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

## Apem:

[5646A](#) [5638AKB](#) [5637AG](#) [5257WCDB16](#) [5636ADKB16](#) [5646AB](#) [5636AB](#) [5644TH1RAGB8](#) [5236WCDB16X404](#)  
[5636AGK-2V](#) [5242MIWRCD](#) [5236CDB](#) [5636AG](#) [5636AG-2V](#) [5242WWCDB16X445](#) [5248WCDB16X404](#) [5642MAB](#)  
[5644TH1RAB9](#) [5644TH2RAKB](#) [5647AKB](#) [5648AKB](#) [5648MAB](#) [5652AKB](#) [5652MAB](#) [5657AKB](#) [5658AKB](#) [5658MAB](#)  
[5662MAB](#) [5664MTH1RAB](#) [5664TH1RAB9](#) [5664TH1RAKB](#) [5664THAKB](#) [5666AB1V](#) [5667AKB](#) [5668AKB](#)  
[5668MAB](#) [5669AB3V](#) [5669MAB](#) [5232AB](#) [5232ABULCSA](#) [5232CDB](#) [5232WCDB16X404](#) [5232WWCDB16X445](#)  
[5232ZA](#) [5236AB](#) [5236ABULCSA](#) [5236CDBF](#) [5236CDGKB2V](#) [5236MIWRCD](#) [5236MIWRCDK2V](#)  
[5236WWAB16X386](#) [5236WWAB16X445](#) [5236WWCD](#) [5236WWCDB16X445](#) [5236WWCDBX386](#) [5236YAB16X386](#)  
[5236YCDB16X445](#) [5236ZA](#) [5236ZAULCSA](#) [5237AB](#) [5237CDB](#) [5237WCDB16X404](#) [5237WWCD](#)  
[5237WWCDB16X445](#) [5237ZA](#) [5238AB](#) [5238CDB](#) [5238WCDB16X404](#) [5238WWCDB16X445](#) [5239AB](#) [5239CDB](#)  
[5239WAB16X404](#) [5239WCDB16X404](#) [5239WWCDB16X445](#) [5239YAB16X386](#) [5239YCDB16X445](#) [5239ZA](#)  
[5242CDB](#) [5242WAB](#) [5242WCDB16X404](#) [5244THCDB](#) [5246AB](#) [5246AB16X371](#) [5246CDB](#) [5246CDGKB2V](#)  
[5246MIWRA](#) [5246MIWRADX449](#) [5246WAB16X404](#) [5246WCDB16X404](#) [5246WWAB16X386](#) [5246WWCDB16X445](#)  
[5246YCDB16X445](#) [5246ZA](#) [5247AB](#) [5247CDB](#) [5247WCDB16X404](#) [5247WWCDB16X445](#) [5248AB](#) [5248CDB](#)  
[5248WWCDB16X445](#)