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.
7 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.

The company reserves the right to change specifications without notice.
**5000 series**

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

### ELECTRICAL SPECIFICATIONS

- **Current/voltage rating with resistive load:**
  
<table>
<thead>
<tr>
<th>Contact</th>
<th>Maximum</th>
<th>Minimum</th>
<th>Level*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver (A)</td>
<td>4 A 30 VDC</td>
<td>50 mA 10 VDC</td>
<td>III and IV</td>
</tr>
<tr>
<td>Silver, gold plated (AD)</td>
<td>4 A 30 VDC</td>
<td>10 mA 50 mV</td>
<td>I to IV</td>
</tr>
<tr>
<td>Gold plating withstands up to 100 mA 30 VDC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brass, gold plated (CD)</td>
<td>0.4 VA at 20 VAC or DC</td>
<td>10 mA 50 mV</td>
<td>I and II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 µA 5 V</td>
<td></td>
</tr>
</tbody>
</table>

*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 :** 0 °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
- 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.
5000 series

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

**TERMINALS**

<table>
<thead>
<tr>
<th>Solder lugs</th>
<th>Straight PC</th>
<th>Straight PC</th>
<th>Quick-connect</th>
<th>Straight PC bracket mounting</th>
</tr>
</thead>
</table>

**ELECTRICAL FUNCTION**

**KEYWAY**

**PANEL CUT-OUT**

Standard

With K sealing option

With X408 sealing option

**PCB MOUNTING FOR RIGHT ANGLE TERMINAL MODELS**

**HORIZONTAL W**

**VERTICAL WW**
# 5000 series
Miniature toggle switches •
threaded bushing Ø 6.35 mm or plain bushing

## BUILD YOUR PART NUMBER

<table>
<thead>
<tr>
<th>SERIES</th>
<th>NUMBER OF POLES</th>
<th>TERMINALS</th>
<th>MOMENTARY FOR FUNCTION 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
<td>Blank</td>
<td>1R ON ON MOM</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>W</td>
<td>2R MOM ON MOM</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>WW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>Z</td>
<td></td>
</tr>
</tbody>
</table>

### TERMINALS AND BUSHINGS
- **0**: Straight PC terminals, 5.08 (.200) terminal spacing
- **2**: Straight PC terminals, 4.70 (.185) terminal spacing, right angle or quick-connect
- **4**: Straight PC terminals, 4 (157) terminal spacing or right angle terminals
- **6**: Solder lug terminals
- **7**: Solder lug terminals, with flattened bushing
- **9**: Straight PC or quick-connect terminals, with flattened bushing, 4.70 (.185) terminal spacing

Bushing Ø 6 (.236) x 0.75 is also available as standard.

### ELECTRICAL FUNCTIONS
- **6**: ON - ON
- **9**: ON OFF ON
- **7**: MOM OFF MOM
- **8**: ON OFF MOM
- **4**: ON ON ON ON

Function 4
- Must not have blank in «connections» box.
- Must not have blank in «momentary» box.

### CONNECTIONS FOR FUNCTION 4
- **TH**: Standard
- **CT**: Reversed

For functions 4, 4-1R, 4-2R (leave blank for all other functions). Wiring diagrams, see Technical information on website.
OPTIONS

5000 series
Miniature toggle switches • threaded bushing Ø 6.35 mm or plain bushing

OPTIONS

CONTINUOUS TIP
Blank None
G Black finish on bushing, actuator and hardware.

FINISH
Blank Nickel plated
G Black finish on bushing, actuator and hardware.

CONTACT MATERIALS
A Silver
AD Silver, gold plated
CD Brass, gold plated

FLUORESCENT TIP
Blank None
-038 White fluorescent tip to lever

Available with black finish (G) only.

SPECIAL OPTIONS
X408 Front panel sealing by two O-rings
Other : see following pages.

SEALING
Blank No sealing except where standard
K Front panel sealing by one O-ring and sealing washer
-9 (Flat) 5.5 (.216) 8.5 (.334)
-16 9 (.354) 12 (.472)
-4N 10.5 (.413) 13.5 (.531)

CAPS
Caps Length
U270 11 (.433)
U1710 7.3 (.287)

SEALING
Blank No sealing except where standard
K Front panel sealing by one O-ring and sealing washer
-9 (Flat) 5.5 (.216) 8.5 (.334)
-16 9 (.354) 12 (.472)
-4N 10.5 (.413) 13.5 (.531)

LEVERS
Length with threaded bushing plain bushing
Blank (Std) 10.5 (.413) 13.5 (.531)
-9 (Flat) 11.4 (.448) -
-16 5.5 (.216) 8.5 (.334)
-4N 9 (.354) 12 (.472)

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

LOCKING LEVERS

A special lever with 1 locked position, 2 locked positions, and 3 locked positions is available for use with paddle actuators only. See the following pages for further information.

AGENCY APPROVALS
UL, CSA, CECC

PACKAGES FOR 4N (ORDER SEPARATELY)
U240N 12.6 (.496)
U290N 20.00 (.787)
U390N 21.4 (.842)

ABOUT THIS SERIES

About this series:

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 lock washer. Standard and special hardware is presented in the “Hardware” section of website.

For VDE, refer to 55000 series.

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.
5000 series

Miniature toggle switches • threaded bushing Ø 6.35 mm

SOLDER LUG TERMINALS
SINGLE POLE

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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</tr>
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<tbody>
<tr>
<td>III</td>
<td>II</td>
<td>I</td>
<td>2-3</td>
<td>1-2</td>
<td>1-2</td>
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<tr>
<td>5636</td>
<td>ON</td>
<td>-</td>
<td>ON</td>
<td>-</td>
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<td>5639</td>
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<td>OFF</td>
<td>ON</td>
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<td>ON</td>
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<tr>
<td>5637</td>
<td>MOM</td>
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</tr>
<tr>
<td>5638</td>
<td>ON</td>
<td>OFF</td>
<td>MOM</td>
<td>-</td>
<td>ON</td>
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</table>

SOLDER LUG TERMINALS
DOUBLE POLE

<p>| | | | | | |</p>
<table>
<thead>
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<td>III</td>
<td>II</td>
<td>I</td>
<td>2-3</td>
<td>1-2</td>
<td>1-2</td>
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<tr>
<td>5646</td>
<td>ON</td>
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<td>-</td>
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<tr>
<td>5649</td>
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<td>ON</td>
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</tr>
<tr>
<td>5647</td>
<td>MOM</td>
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</tr>
<tr>
<td>5648</td>
<td>ON</td>
<td>OFF</td>
<td>MOM</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5644*</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5644 1R*</td>
<td>ON</td>
<td>ON</td>
<td>MOM</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5644 2R*</td>
<td>MOM</td>
<td>ON</td>
<td>MOM</td>
<td>-</td>
<td>ON</td>
</tr>
</tbody>
</table>

SOLDER LUG TERMINALS
THREE POLE

<p>| | | | | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>III</td>
<td>II</td>
<td>I</td>
<td>2-3</td>
<td>1-2</td>
<td>1-2</td>
</tr>
<tr>
<td>5656</td>
<td>ON</td>
<td>-</td>
<td>ON</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5659</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5657</td>
<td>MOM</td>
<td>OFF</td>
<td>MOM</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5658</td>
<td>ON</td>
<td>OFF</td>
<td>MOM</td>
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</tbody>
</table>

SOLDER LUG TERMINALS
FOUR POLE

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>II</td>
<td>I</td>
<td>2-3</td>
<td>1-2</td>
<td>1-2</td>
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<tr>
<td>5666</td>
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<td>ON</td>
</tr>
<tr>
<td>5669</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5677</td>
<td>MOM</td>
<td>OFF</td>
<td>MOM</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5668</td>
<td>ON</td>
<td>OFF</td>
<td>MOM</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5664*</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5664 1R*</td>
<td>ON</td>
<td>ON</td>
<td>MOM</td>
<td>-</td>
<td>ON</td>
</tr>
<tr>
<td>5664 2R*</td>
<td>MOM</td>
<td>ON</td>
<td>MOM</td>
<td>-</td>
<td>ON</td>
</tr>
</tbody>
</table>

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

* Function 4: SP in DP case - specify CT or TH connections.
* Function 4: DP in 4P case - specify CT or TH connections.
**5000 series**

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

---

**STRAIGHT PC TERMINALS - SPACING 4.7 (.185)**

**SINGLE POLE**

<table>
<thead>
<tr>
<th>III</th>
<th>II</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3</td>
<td>1-2</td>
<td></td>
</tr>
</tbody>
</table>

- 5236 B: ON - ON
- 5239 B: ON OFF ON
- 5237 B: MOM OFF MOM
- 5238 B: ON OFF MOM

**DOUBLE POLE**

<table>
<thead>
<tr>
<th>III</th>
<th>II</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>5-6</td>
<td>4-5</td>
<td></td>
</tr>
</tbody>
</table>

- 5246 B: ON - ON
- 5249 B: ON OFF ON
- 5247 B: MOM OFF MOM
- 5248 B: ON OFF MOM
- 5244 B*: ON OFF MOM
- 5244 1R B*: ON ON ON
- 5244 2R B*: MOM ON MOM

**THREE POLE**

<table>
<thead>
<tr>
<th>III</th>
<th>II</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3</td>
<td>1-2</td>
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<tr>
<td>5-6</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td>8-9</td>
<td>7-8</td>
<td></td>
</tr>
</tbody>
</table>

- 5256 B: ON - ON
- 5259 B: ON OFF ON
- 5257 B: MOM OFF MOM
- 5258 B: ON OFF MOM

**FOUR POLE**

<table>
<thead>
<tr>
<th>III</th>
<th>II</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>5-6</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td>8-9</td>
<td>7-8</td>
<td></td>
</tr>
<tr>
<td>11-12</td>
<td>10-11</td>
<td></td>
</tr>
</tbody>
</table>

- 5266 B: ON - ON
- 5269 B: ON OFF ON
- 5267 B: MOM OFF MOM
- 5268 B: ON OFF MOM
- 5264 B*: ON ON ON
- 5264 1R B*: ON ON ON
- 5264 2R B*: MOM ON MOM

---

*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)

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

5044* B ON ON ON
5044 1R* B ON ON MOM
5044 2R* B MOM ON MOM

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

Epoxy sealed terminals standard (B).

QUICK-CONNECT TERMINALS
SINGLE POLE

III II
2-3 1-2
5-6 4-5

5236Z B ON - ON
5239Z B ON OFF ON
5237Z B MOM OFF MOM
5238Z B ON OFF MOM

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

QUICK-CONNECT TERMINALS
DOUBLE POLE

III II
2-3 1-2
5-6 4-5

5246Z B ON - ON
5249Z B ON OFF ON
5247Z B MOM OFF MOM
5248Z B ON OFF 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 II
2-3 1-2

5236W ON - ON
5239W ON OFF ON
5237W MOM OFF MOM
5238W ON OFF MOM

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

* Function 4 : SP in DP case - specify CT or TH connections.
RIGHT ANGLE TERMINALS - VERTICAL

Double Pole

5246W
5249W
5247W
5248W
5244W*
5244W 1R*
5244W 2R*

MOM ON MOM
ON OFF ON
MOM OFF MOM
ON OFF MOM
ON ON ON
ON OFF ON
MOM ON MOM

RIGHT ANGLE TERMINALS - VERTICAL

Three Pole

5256W
5259W
5257W
5258W

ON OFF ON
MOM OFF MOM
ON OFF MOM

RIGHT ANGLE TERMINALS - HORIZONTAL

Double Pole

5246W
5249W
5247W
5248W
5244W*
5244W 1R*
5244W 2R*

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

Three Pole

5256W
5259W
5257W
5258W

ON OFF ON
MOM OFF MOM
ON OFF MOM

5000 series
Miniature toggle switches • plain bushing

** Shown with standard lever

* Function 4 : SP in DP case - specify CT or TH connections.
** Function 8 : reversed connection available, consult factory.
Also available with pin spacing 2.54 mm (.100) instead of 3.81 mm (.150) : 5400WWW

Vertical right angle models above : * Function 4 : SP in DP case, DP in 4P case - specify CT or TH connections.
** Function 8 : reversed connection available, consult factory.

Also available with pin spacing 2.54 mm (.100) instead of 3.81 mm (.150) : 5400WWW
5000 series

Miniature toggle switches • plain bushing

RIGHT ANGLE TERMINALS - VERTICAL THREE POLE

<table>
<thead>
<tr>
<th>I</th>
<th>II</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>5-6</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td>8-9</td>
<td>7-8</td>
<td></td>
</tr>
</tbody>
</table>

5256WW
ON - ON
5259WW
ON OFF ON
5257WW
MOM OFF MOM
5258WW**
ON OFF MOM

** Function 8 : reversed connection available, consult factory.

RIGHT ANGLE TERMINALS - VERTICAL FOUR POLE

<table>
<thead>
<tr>
<th>I</th>
<th>II</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>5-6</td>
<td>4-5</td>
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<td>8-9</td>
<td>7-8</td>
<td></td>
</tr>
<tr>
<td>11-12</td>
<td>10-11</td>
<td></td>
</tr>
</tbody>
</table>

5266WW
ON - ON
5269WW
ON OFF ON
5267WW
MOM OFF MOM
5268WW**
ON OFF MOM
5264WW*
ON ON MOM
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

<table>
<thead>
<tr>
<th>I</th>
<th>II</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3</td>
<td>1-2</td>
<td></td>
</tr>
</tbody>
</table>

5236Y B
ON - ON
5239Y B
ON OFF ON
5237Y B
MOM OFF MOM
5238Y B
ON OFF MOM

Epoxy sealed terminals standard (B).

SHORT BRACKET - WIDTH 15.75 (.620) DOUBLE POLE

<table>
<thead>
<tr>
<th>I</th>
<th>II</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>5-6</td>
<td>4-5</td>
<td></td>
</tr>
</tbody>
</table>

5246Y B
ON - ON
5249Y B
ON OFF ON
5247Y B
MOM OFF MOM
5248Y B
ON OFF MOM
5244Y B*
ON OFF MOM
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)

<table>
<thead>
<tr>
<th>Single pole</th>
<th>Double pole</th>
</tr>
</thead>
<tbody>
<tr>
<td>5236Y4 B</td>
<td>5246Y4 B</td>
</tr>
<tr>
<td>5239Y4 B</td>
<td>5249Y4 B</td>
</tr>
<tr>
<td>5237Y4 B</td>
<td>5247Y4 B</td>
</tr>
<tr>
<td>5238Y4 B</td>
<td>5248Y4 B</td>
</tr>
<tr>
<td>5244Y4 B*</td>
<td></td>
</tr>
<tr>
<td>5244Y4 1R B*</td>
<td></td>
</tr>
<tr>
<td>5244Y4 2R B*</td>
<td></td>
</tr>
</tbody>
</table>

III  II  I
____  ____  ____
2-3  1-2  1-2
5-6  4-5  5-6
ON  -  ON  ON  OFF  ON
ON  OFF  ON  ON  OFF  ON
MOM  OFF  MOM  ON  ON  MOM
ON  ON  ON  ON  ON  MOM

SHORT BRACKET - WIDTH 19.05 (.750)

<table>
<thead>
<tr>
<th>Single pole</th>
<th>Double pole</th>
</tr>
</thead>
<tbody>
<tr>
<td>5236Y6 B</td>
<td>5246Y6 B</td>
</tr>
<tr>
<td>5239Y6 B</td>
<td>5249Y6 B</td>
</tr>
<tr>
<td>5237Y6 B</td>
<td>5247Y6 B</td>
</tr>
<tr>
<td>5238Y6 B</td>
<td>5248Y6 B</td>
</tr>
<tr>
<td>5244Y6 B*</td>
<td></td>
</tr>
<tr>
<td>5244Y6 1R B*</td>
<td></td>
</tr>
<tr>
<td>5244Y6 2R B*</td>
<td></td>
</tr>
</tbody>
</table>

III  II  I
____  ____  ____
2-3  1-2  1-2
5-6  4-5  5-6
ON  -  ON  ON  OFF  ON
ON  OFF  ON  ON  OFF  ON
MOM  OFF  MOM  ON  ON  MOM
ON  ON  ON  ON  ON  MOM

TALL BRACKET - WIDTH 19.05 (.750)

<table>
<thead>
<tr>
<th>Single pole</th>
<th>Double pole</th>
</tr>
</thead>
<tbody>
<tr>
<td>5236Y7 B</td>
<td>5246Y7 B</td>
</tr>
<tr>
<td>5239Y7 B</td>
<td>5249Y7 B</td>
</tr>
<tr>
<td>5237Y7 B</td>
<td>5247Y7 B</td>
</tr>
<tr>
<td>5238Y7 B</td>
<td>5248Y7 B</td>
</tr>
<tr>
<td>5244Y7 B*</td>
<td></td>
</tr>
<tr>
<td>5244Y7 1R B*</td>
<td></td>
</tr>
<tr>
<td>5244Y7 2R B*</td>
<td></td>
</tr>
</tbody>
</table>

III  II  I
____  ____  ____
2-3  1-2  1-2
5-6  4-5  5-6
ON  -  ON  ON  OFF  ON
ON  OFF  ON  ON  OFF  ON
MOM  OFF  MOM  ON  ON  MOM
ON  ON  ON  ON  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

<table>
<thead>
<tr>
<th>Basic P/N</th>
<th>A</th>
<th>AD</th>
<th>CD</th>
<th>...</th>
<th>...</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Silver</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD</td>
<td>Silver, gold plated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CD</td>
<td>Brass, gold plated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### FINISH

<table>
<thead>
<tr>
<th>Basic P/N</th>
<th>Blank</th>
<th>AD</th>
<th>CD</th>
<th>...</th>
<th>...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>Nickel plated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Black finish on bushing, actuator and hardware</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SEALING

<table>
<thead>
<tr>
<th>Basic P/N</th>
<th>Blank</th>
<th>AD</th>
<th>CD</th>
<th>...</th>
<th>...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>For 5000 and 5200Z models: epoxy sealed terminals standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other models: no sealing required</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>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.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Available on models with Ø 6.35 (1/4) threaded bushing only.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not available with levers 8, 9, 12, 22, 23.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Epoxy sealed terminals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KB</td>
<td>Combined sealings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### OPTION B

1. O-ring
2. Sealing washer

### OPTION K

K with Ø 6.35 (1/4)
- keyway bushing includes washer U360
- flatted bushing includes washer U5141

### FLUORESCENT TIP

<table>
<thead>
<tr>
<th>Basic P/N</th>
<th>Blank</th>
<th>AD</th>
<th>CD</th>
<th>...</th>
<th>...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-038</td>
<td>White fluorescent tip.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Becomes luminous when submitted to ultraviolet rays.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Available with black finish (option G) only.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Consult factory for levers available with this option.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

-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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø3.00</td>
<td>1.00</td>
<td>9.00 10.50</td>
</tr>
<tr>
<td>Ø2.70</td>
<td>5.50</td>
<td>9.00 16.40</td>
</tr>
<tr>
<td>Ø2.80</td>
<td>7.00</td>
<td>9.00 21.30</td>
</tr>
<tr>
<td>Ø3.30</td>
<td>14.00</td>
<td>16.40 21.30</td>
</tr>
<tr>
<td>Ø4.20</td>
<td>6.30</td>
<td>14.85 9.00</td>
</tr>
</tbody>
</table>

* For use with paddles only
** Not available with sealing options K or X408
*** U640 to be placed in last box of ordering format. Replace "0" by color code (see following pages)

#### 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

-1V

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.

*B640 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.
5000 series

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

BASIC P/N

SPECIAL OPTIONS
(CONTINUED)

5000 series

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)

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

OPTION X404

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

* 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

OPTION X404 (CONTINUED)
LEVERS LENGTHS FOR X404 (ALSO AVAILABLE WITH X445 OPTION)

* For paddles
*** 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 Standard models 5600 - 5200
CECC

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

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.

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