5000 series
Toggle switches
Distinctive features

THE WIDEST RANGE IN MINIATURE SWITCHES

- 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.
- 6 bushing styles from 6 (.236) plain to 11.9 (15/32) threaded.
- 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 for actuator and bushing options.

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

Toggle switches

Overview

<table>
<thead>
<tr>
<th>SERIES</th>
<th>Number of poles</th>
<th>Terminals and bushing</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 Single pole</td>
<td>Blank: Solder lugs or straight PC depending on model</td>
</tr>
<tr>
<td></td>
<td>4 Double pole</td>
<td>M: Solder lugs with Ø 11.9 (15/32) bushing (5600 switches)</td>
</tr>
<tr>
<td></td>
<td>5 Three pole</td>
<td>MIWR: Wire wrap (for 5200 switches only)</td>
</tr>
<tr>
<td></td>
<td>6 Four pole</td>
<td>W: Right angle, horizontal mounting (5200 - 5400 switches)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WW: Right angle, vertical mounting (5200 - 5400 switches)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Y: Bracket mounting (5200 switches)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Y4: Bracket mounting (5200 switches)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Y6: Bracket mounting (5200 switches)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Y7: Bracket mounting (5200 switches)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z: Quick connect (5200 - 5100 - 5900 switches)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Straight PC terminals, 5.08 (.200) terminal spacing, with Ø 6.35 (1/4) threaded bushing</td>
</tr>
<tr>
<td>1 Straight PC or quick-connect terminals, 4.70 (.185) terminal spacing, with Ø 6.35 (1/4) threaded bushing</td>
</tr>
<tr>
<td>2 Straight PC terminals, 4.70 (.185) terminal spacing, right angle, quick-connect or wire wrap terminals, with Ø 6.35 (1/4) threaded bushing</td>
</tr>
<tr>
<td>3 Straight PC terminals, 4.157 (.163) terminal spacing, with Ø 6.35 (1/4) threaded bushing</td>
</tr>
<tr>
<td>4 Straight PC terminals, 4.157 (.163) terminal spacing or right angle terminals, with Ø 6.35 (1/4) threaded bushing</td>
</tr>
<tr>
<td>5 Solder lug terminals, with Ø 6.35 (1/4) threaded bushing</td>
</tr>
<tr>
<td>6 Solder lug terminals, with Ø 6.35 (1/4) or Ø 11.9 (15/32) threaded bushing</td>
</tr>
<tr>
<td>7 Solder lug terminals, with Ø 6.35 (1/4) flatted bushing</td>
</tr>
<tr>
<td>9 Straight PC or quick-connect terminals, with Ø 6.35 (1/4) flatted bushing, 4.70 (.185) terminal spacing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 ON - ON</td>
</tr>
<tr>
<td>9 ON OFF ON</td>
</tr>
<tr>
<td>7 MOM OFF MOM</td>
</tr>
<tr>
<td>8 ON OFF MOM</td>
</tr>
<tr>
<td>2 ON - MOM</td>
</tr>
<tr>
<td>4 ON ON ON ON ON ON MOM ▲</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connections for function 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH Standard</td>
</tr>
<tr>
<td>CT Reversed</td>
</tr>
<tr>
<td>See wiring diagrams end of catalogue.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Momentary for function 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1R ON ON MOM ON MOM</td>
</tr>
<tr>
<td>2R MOM ON MOM</td>
</tr>
</tbody>
</table>

Function 4
Must not have blank in "connections" box.
▲ Must not have blank in "momentary" box.

ABOUT THIS SERIES
On the following pages, you will find successively:
- model structure of switches with threaded bushing
- model structure of switches with plain bushing
- options in the same order as in above chart

Dimensions: first dimensions are in mm while inches are shown as bracketed numbers.

NOTICE: please note that not all combinations of above numbers are available.
Refer to the following pages for further information.
5000 series
Toggle switches
Overview

Sealing boots are available. They are presented in section H.

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 available are presented in section I.

Packaging unit: 25 pieces or 50 pieces depending on models.
5000 series
Toggle switches
Specifications

**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>4A 30VDC</td>
<td>50mA 10VDC</td>
<td>III and IV</td>
</tr>
<tr>
<td>Silver, gold plated (AD)</td>
<td>4A 30VDC</td>
<td>10mA 50mV</td>
<td>I to IV</td>
</tr>
<tr>
<td>Brass, gold plated (CD)</td>
<td>0.4 VA at 20VAC or DC</td>
<td>10mA 50mV</td>
<td>I and II</td>
</tr>
</tbody>
</table>

- For inductive, lamp or capacitive load, consult factory. * For details, see Technical Information, end of catalogue.
- Initial contact resistance : 10 mΩ max.
- Insulation resistance : 1.000 MΩ min. at 500VDC
- 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

**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

**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

**AGENCY APPROVALS/PREFERENTIAL LIST**

- UL
- CSA
- CECC 96201-007

3A 250VAC, 6A 125VAC

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
Toggle switches - solder lug terminals
Threaded bushing Ø 6.35 (1/4) : 5600

• 1, 2, 3 and 4 pole configurations

Single pole

III II I
2-3 1-2

5636 ON - ON
5639 ON OFF ON
5637 MOM OFF MOM
5638 ON OFF MOM
5632 ON - MOM

Double pole

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

5646 ON - ON
5649 ON OFF ON
5647 MOM OFF MOM
5648 ON - MOM
5644* ON ON ON
5644 1R* ON ON MOM
5644 2R* MOM ON MOM

* Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.

Three pole

III II I
2-3 1-2
5-6 4-5
8-9 7-8

5656 ON - ON
5659 ON OFF ON
5657 MOM OFF MOM
5658 ON OFF MOM
5652 ON - MOM
5000 series
Toggle switches - solder lug terminals

Threaded bushing Ø 6,35 (1/4) : 5600

**Four pole**

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

**Function 4 : DP in 4P case - specify CT or TH connections, see end of catalogue.**

**PANEL CUT-OUT**

- **Standard**
- **With K sealing option**
- **With X408 sealing option**
5000 series
Toggle switches - solder lug terminals

5700 models
- Flatted bushing Ø 6.35 mm (1/4)
- 1, 2, 3 and 4 pole configurations

Diagram as per 5600 model

MODEL STRUCTURE

For model structure numbers, refer to 5600 models and replace 6 with 7.

5500 models
- Threaded bushing Ø 6 mm x 0.75 SI (.236 x 0.75 IS)
- 1, 2, 3 and 4 pole configurations

Diagram as per 5600 model

MODEL STRUCTURE

For model structure numbers, refer to 5600 models and replace 6 with 5.

PANEL CUT-OUT

Standard or with K sealing option

PANEL CUT-OUT

Standard With X408 sealing option
5000 series
Toggle switches - solder lug terminals
Threaded bushing Ø 11.9 (15/32) : 5600M

- 1, 2, 3 and 4 pole configurations
- Supplied with 2 hex nuts and 1 locking ring
- Panel thickness up to 6 mm (.236)

MODEL STRUCTURE

Single pole

<table>
<thead>
<tr>
<th>Pole Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON - ON</td>
</tr>
<tr>
<td>ON OF ON</td>
</tr>
<tr>
<td>ON - MOM</td>
</tr>
<tr>
<td>ON OFF MOM</td>
</tr>
</tbody>
</table>

Double pole

<table>
<thead>
<tr>
<th>Pole Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON - ON</td>
</tr>
<tr>
<td>ON OFF ON</td>
</tr>
<tr>
<td>MOM OFF MOM</td>
</tr>
<tr>
<td>ON OFF MOM</td>
</tr>
<tr>
<td>ON - MOM</td>
</tr>
<tr>
<td>ON - MOM</td>
</tr>
<tr>
<td>ON OFF ON</td>
</tr>
<tr>
<td>ON OFF MOM</td>
</tr>
<tr>
<td>ON OFF MOM</td>
</tr>
<tr>
<td>ON - MOM</td>
</tr>
</tbody>
</table>

Three pole

<table>
<thead>
<tr>
<th>Pole Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON - ON</td>
</tr>
<tr>
<td>ON OFF ON</td>
</tr>
<tr>
<td>MOM OFF MOM</td>
</tr>
<tr>
<td>ON OFF MOM</td>
</tr>
<tr>
<td>ON - MOM</td>
</tr>
</tbody>
</table>

* Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.
**5000 series**

Toggle switches - solder lug terminals

Threaded bushing Ø 11.9 (15/32) : 5600M

### Four pole

- **5666M**: ON - ON
- **5669M**: ON OFF ON
- **5667M**: MOM OFF MOM
- **5668M**: ON OFF MOM
- **5662M**: ON - MOM
- **5664M**: ON ON ON
- **5664M 1R**: ON ON MOM
- **5664M 2R**: MOM ON MOM

*Function 4 : DP in 4P case - specify CT or TH connections, see end of catalogue.*

### PANEL CUT-OUT

- **Standard**
- **With K sealing option**

OTHER : M bushing can be combined with other types such as : 5200, Z, MIWR... Consult factory.
5000 series
Toggle switches - straight PC terminals
Threaded bushing Ø 6,35 (1/4) : 5200

- Terminal spacing 4,7 mm (.185)
- 1, 2, 3 and 4 pole configurations
- Epoxy sealed terminals standard

For new projects, we recommend switches with support bracket (option Y) which holds the switch securely on the PCB.
Other terminal lengths presented under "Special options".
Also available with plain bushing, see "Special options" X371

### Single pole

- 5236 B  
  ON - ON
- 5239 B  
  ON OFF ON
- 5237 B  
  MOM OFF ON
- 5238 B  
  ON OFF MOM
- 5232 B  
  ON - MOM

### Double pole

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

*Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.

### Three pole

- 5256 B  
  ON - ON
- 5259 B  
  ON OFF ON
- 5257 B  
  MOM OFF MOM
- 5258 B  
  ON OFF MOM
- 5252 B  
  ON - MOM
5000 series

Toggle switches - straight PC terminals

Threaded bushing Ø 6,35 (1/4) : 5200 - 5000

Four pole

<table>
<thead>
<tr>
<th>Model</th>
<th>Structure</th>
<th>Terminal Spacing</th>
<th>Keyway</th>
</tr>
</thead>
<tbody>
<tr>
<td>5266 B</td>
<td>ON - ON</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5269 B</td>
<td>ON OFF ON</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5267 B</td>
<td>MOM OFF MOM</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5268 B</td>
<td>ON - MOM</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5264 B*</td>
<td>ON ON ON</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5264 1 R B*</td>
<td>ON ON MOM</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5264 2 R B*</td>
<td>MOM ON MOM</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
</tbody>
</table>

*Function 4 : DP in 4P case - specify CT or TH connections, see end of catalogue.

PANEL CUT-OUT

5200 - 5000 - 5400

Standard

With K sealing option

5000 models

- Terminal spacing 5,08 mm (.200)
- Epoxy sealed terminals standard
- 1 and 2 pole configurations

Diagram as per 5200 model

MODEL STRUCTURE

Shown with standard lever

Terminal spacing 5,08 (.200) - single and double pole

<table>
<thead>
<tr>
<th>Model</th>
<th>Structure</th>
<th>Terminal Spacing</th>
<th>Keyway</th>
</tr>
</thead>
<tbody>
<tr>
<td>5036</td>
<td>ON - ON</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5039</td>
<td>ON OFF ON</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5037</td>
<td>MOM OFF MOM</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5038</td>
<td>ON - MOM</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5044*</td>
<td>ON ON ON</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5044 1 R*</td>
<td>ON ON MOM</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
<tr>
<td>5044 2 R*</td>
<td>MOM ON MOM</td>
<td>5,08 mm (.200)</td>
<td></td>
</tr>
</tbody>
</table>

*Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.
5000 series
Toggle switches - straight PC terminals

5400 models
- Threaded bushing Ø 6.35 mm (1/4)
- Terminal spacing 4 mm (.157)
- 1, 2, 3 and 4 pole configurations

Diagram, as per 5200 model

For model structure numbers, refer to 5200 models and replace 2 with 4.
Panel cut-out, see 5200.

5900 models
- Flatted bushing Ø 6.35 mm (1/4)
- Terminal spacing 4.7 mm (.185)
- 1, 2, 3 and 4 pole configurations

For model structure numbers, refer to 5200 models and replace 2 with 9.

Panel cut-out
Standard or with K sealing option
5000 series
Toggle switches - straight PC terminals

5100 models

- Threaded bushing Ø 6 mm x 0.75 SI (.236 x 0.75 IS)
- Terminal spacing 4.7 mm (.185)
- 1, 2, 3 and 4 pole configurations

For model structure numbers, refer to 5200 models and replace 2 with 1.
Panel cut-out, see below.

5300 models

- Threaded bushing Ø 6 mm x 0.75 SI (.236 x 0.75 IS)
- Terminal spacing 4 mm (.157)
- 1, 2, 3 and 4 pole configurations

For model structure numbers, refer to 5200 models and replace 2 with 3.
5000 series
Toggle switches - quick-connect terminals
Threaded bushing Ø 6,35 (1/4) : 5200Z

- Terminal spacing 4,7 mm (.185)
- Epoxy sealed terminals standard
- 1 and 2 pole configurations

MODEL STRUCTURE

Single pole

<table>
<thead>
<tr>
<th>Structure</th>
<th>Keyway</th>
</tr>
</thead>
<tbody>
<tr>
<td>IIIIIIIII</td>
<td>Keyway</td>
</tr>
<tr>
<td>2-3 1-2</td>
<td></td>
</tr>
</tbody>
</table>

5236Z          ON - ON
5239Z          ON OFF ON
5237Z          MOM OFF MOM
5238Z          ON OFF MOM
5232Z          ON - MOM

Double pole

<table>
<thead>
<tr>
<th>Structure</th>
<th>Keyway</th>
</tr>
</thead>
<tbody>
<tr>
<td>IIIIIIIII</td>
<td>Keyway</td>
</tr>
<tr>
<td>2-3 1-2</td>
<td></td>
</tr>
</tbody>
</table>

5246Z          ON - ON
5249Z          ON OFF ON
5247Z          MOM OFF MOM
5248Z          ON OFF MOM
5242Z          ON - MOM
5244Z*         ON ON MOM
5244Z 1R*      ON ON MOM
5244Z 2R*      MOM ON MOM

*Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.

PANEL CUT-OUT

Standard
With K sealing option
With X408 sealing option
5000 series
Toggle switches - quick-connect terminals

5900Z models
- Flatted bushing Ø 6,35 mm (1/4)
- Terminal spacing 4,7 mm (.185)
- Epoxy sealed terminals standard
- 1 and 2 pole configurations

For model structure numbers, refer to 5200Z models and replace 2 with 9.

5100Z models
- Threaded bushing Ø 6 mm x 0.75 SI (.236 x 0.75 IS)
- Terminal spacing 4,7 mm (.185)
- Epoxy sealed terminals standard
- 1 and 2 pole configurations

For model structure numbers, refer to 5200Z models and replace 2 with 1.
Toggle switches - wire-wrap terminals

Threaded bushing Ø 6,35 (1/4) : 5200MIWR

- Terminal spacing 5.08 mm (.200)
- Epoxy sealed terminals standard
- 1 and 2 pole configurations
- Can also be used as extended PCB terminals

*Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.

**Panel Cut-Out**

- Standard
- With K sealing option
- With X408 sealing option
5000 series
Toggle switches - plain bushing

Right angle terminals - horizontal : 5200W

- Terminal spacing 4.7 mm (.185)
- 1, 2 and 3 pole configurations

Special switch 5200WX404 with reduced overall dimensions is presented under "Special options".

Single pole

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

5236W ON - ON
5239W ON OFF ON
5237W MOM OFF ON
5238W ON OFF MOM
5232W ON - MOM

Double pole

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

5246W ON - ON
5249W ON OFF ON
5247W MOM OFF ON
5248W ON OFF MOM
5242W ON - MOM
5244W* ON ON ON
5244W 1R* ON ON MOM
5244W 2R* MOM ON MOM

*Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.

Three pole

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

5256W ON - ON
5259W ON OFF ON
5257W MOM OFF MOM
5258W ON OFF MOM
5252W ON - MOM

Model structure

Shown with standard lever

Three pole
5000 series
Toggle switches - plain bushing
Right angle terminals - horizontal: 5400W

PCB MOUNTING FOR 5200W

5400W models
- Terminal spacing 4 mm (.157)
- 1 and 2 pole configurations

Diagram, as per 5200W model

MODEL STRUCTURE

For model structure numbers, refer to 5200W single and double pole and replace 2 with 4.
5000 series
Toggle switches - plain bushing

Right angle terminals - vertical : 5200WW

- Pin spacing 3,81 mm (.150)
- 1, 2, 3 and 4 pole configurations

MODEL
STRUCTURE

Shown with standard lever

Single pole

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>5236WW</td>
<td>ON - ON</td>
</tr>
<tr>
<td>5239WW</td>
<td>ON OFF ON</td>
</tr>
<tr>
<td>5237WW</td>
<td>MOM OFF MOM</td>
</tr>
<tr>
<td>5238WW**</td>
<td>ON OFF MOM</td>
</tr>
<tr>
<td>5232WW**</td>
<td>ON - MOM</td>
</tr>
</tbody>
</table>

Double pole

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>5246WW</td>
<td>ON - ON</td>
</tr>
<tr>
<td>5249WW</td>
<td>ON OFF ON</td>
</tr>
<tr>
<td>5247WW</td>
<td>MOM OFF MOM</td>
</tr>
<tr>
<td>5248WW**</td>
<td>ON OFF MOM</td>
</tr>
<tr>
<td>5242WW**</td>
<td>ON - MOM</td>
</tr>
<tr>
<td>5244WW*</td>
<td>ON ON ON</td>
</tr>
<tr>
<td>5244WW 1R*</td>
<td>MOM ON MOM</td>
</tr>
<tr>
<td>5244WW 2R*</td>
<td>MOM ON MOM</td>
</tr>
</tbody>
</table>

Three pole

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>5256WW</td>
<td>ON - ON</td>
</tr>
<tr>
<td>5259WW</td>
<td>ON OFF ON</td>
</tr>
<tr>
<td>5257WW</td>
<td>MOM OFF MOM</td>
</tr>
<tr>
<td>5258WW**</td>
<td>ON OFF MOM</td>
</tr>
<tr>
<td>5252WW**</td>
<td>ON - MOM</td>
</tr>
</tbody>
</table>

* and ** : see notes next page.
5000 series
Toggle switches - plain bushing
Right angle terminals - vertical : 5200WW - 5400WW

Four pole

5266WW
5269WW
5267WW
5268WW**
5262WW**
5264WW*
5264WW 1R*
5264WW 2R*

* Function 4 : SP in DP case, DP in 4P case - specify CT or TH connections, see end of catalogue.
** Functions 2 and 8 : reversed connection available, consult factory.

PCB MOUNTING

5400WW models

• Pin spacing 2,54 mm (.100)
• 1, 2, 3 and 4 pole configurations

Diagram as per 5200WW model

MODEL STRUCTURE

For model structure numbers, refer to 5200WW models and replace 2 with 4.

PC LAYOUT
5000 series

Toggle switches - plain bushing

Straight PC terminals - bracket mounting : 5200Y

Brackets reduce mechanical stress on solder joints and increase resistance to vibrations. Bracket material : tin plated steel.

- Epoxy sealed terminals standard
- 1 and 2 pole configurations

MODEL
STRUCTURE

Shown with standard lever

Short bracket - width 15,75 (.620) - single pole : 5230Y

<table>
<thead>
<tr>
<th>MODEL</th>
<th>STRUCTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5236Y B  5239Y B  5237Y B  5238Y B  5232Y B
ON - ON  ON OFF ON  MOM OFF MOM  ON OFF MOM  ON - MOM

Short bracket - width 15,75 (.620) - double pole : 5240Y

5246Y B  5249Y B  5247Y B  5248Y B  5242Y B
ON - ON  ON OFF ON  MOM OFF MOM  ON - MOM  ON - MOM

5244Y B* 5244Y 1R B* 5244Y 2R B*
ON ON OM  ON ON OM  MOM OM OM

* Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.
5000 series

Toggle switches - plain bushing

Straight PC terminals - bracket mounting: 5200Y4 - Y6 - Y7

Tall bracket - width 15,75 (.620) : 5200Y4

Single pole Double pole
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

* Function 4: SP in DP case - specify CT or TH connections, see end of catalogue.

Short bracket - width 19,05 (.750) : 5200Y6

Single pole Double pole
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

Tall bracket - width 19,05 (.750) : 5200Y7

Single pole Double pole
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

* Function 4: SP in DP case - specify CT or TH connections, see end of catalogue.
5000 series
Toggle switches

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 - 5200Z and 5200MIWR models: epoxy sealed terminals standard
• Other models: no sealing required
B Epoxy sealed terminals
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) or 11,9 (15/32) threaded bushing only.
Not available with levers 8, 9, 12, 22, 23.
KB Combined sealings

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

Includes washer U360
Includes washer U5141
Includes washer U60
5000 series
Toggle switches

FLUORESCENT TIP

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

ACTUATORS

Levers for threaded bushing models Ø 6.35 (1/4) or Ø 6 (.236)

Blank  Standard
-2
-4N  For use with paddles only

-8  Not available with sealing options K or X408
-9  Not available with sealing options K or X408
-12  Not available with sealing options K or X408
-16
-17
-21 (+U640)  U640 to be placed in last box of ordering format. Replace 0 by colour code.
**5000 series**

**Toggle switches**

**ACTUATORS** (continued)

Not available with sealing options K or X408

Levers for threaded bushing models Ø 11.9 (15/32) : 5600M

Locking levers

Consult factory for other locking lever options.

Available with Ø 6.35 mm (1/4) threaded bushing models only.

For plain bushing models, see X386 or X916 under “Special options” on the following pages.
5000 series
Toggle switches

ACTUATORS (continued)

For plain bushing models : W - WW and Y

For use with paddles only

U640 to be placed in last box of ordering format. Replace 0 by colour code.

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 in "Model Structure" pages for details.

ACTUATOR colours
Replace "0" by number

<table>
<thead>
<tr>
<th>Colour Code</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>blue</td>
</tr>
<tr>
<td>1/4</td>
<td>dark blue</td>
</tr>
<tr>
<td>2</td>
<td>black</td>
</tr>
<tr>
<td>3</td>
<td>green</td>
</tr>
<tr>
<td>4</td>
<td>grey</td>
</tr>
<tr>
<td>5</td>
<td>yellow</td>
</tr>
<tr>
<td>6</td>
<td>red</td>
</tr>
<tr>
<td>7</td>
<td>ivory</td>
</tr>
<tr>
<td>7/1</td>
<td>white</td>
</tr>
<tr>
<td>9</td>
<td>orange</td>
</tr>
</tbody>
</table>
SPECIAL OPTIONS

Blank
No special requirement

X408
Front panel sealing by two O-rings. Flattened 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 except 5600M.
Not available with levers 8, 9, 12, 22, 23.

X404
Horizontal right angle with reduced overall dimensions (shown with lever -16)

Levers lengths for WX404 (also available with X445 option)

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 pages.
5000 series
Toggle switches

SPECIAL OPTIONS (continued)

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.

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 : 0,5A 30VDC. Minimum quantity : 5,000 pieces per model and shipment.

X681 Satin chrome actuator

X814 Switches for peak currents

Peak current up to 120A (1 ms) 60VDC - single/double pole

<table>
<thead>
<tr>
<th>Type</th>
<th>Switches</th>
<th>Contacts</th>
<th>Max. current/voltage rating</th>
<th>Further specifications and dimensions</th>
<th>General information on peak currents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pole</td>
<td>X814</td>
<td>silver/nickel alloy (AgNi)</td>
<td>2/120A (1 ms) 60VDC - 10,000 cycles</td>
<td>see 5600 series.</td>
<td>see end of catalogue.</td>
</tr>
<tr>
<td>Double pole</td>
<td>X814</td>
<td>silver/nickel alloy (AgNi)</td>
<td>2/120A (1 ms) 60VDC - 10,000 cycles</td>
<td>see 5600 series.</td>
<td>see end of catalogue.</td>
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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.
5000 series
Toggle switches

AGENCY APPROVALS

UL: All standard models, except 5200MIWR
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). Blank: no agency approval required.

VDE (with UL & CSA): Refer to 55000 series on the following pages.

Preferential lists: see specifications.

INSULATING CAPS AND PADDLES

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

Cap colours

Replace last "0" by number
1 blue
1/4 dark blue
2 black
3 green
4 grey
5 yellow
6 red
7/1 white
9 orange

Insulating caps are not available in ivory colour.
INSULATED CAPS AND PADDLES (continued)

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

Paddle colours
Replace last "0" by number

<table>
<thead>
<tr>
<th>Number</th>
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<tr>
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