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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.

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5000 series

Toggle switches

Overview

MODEL STRUCTURE



A

SERIES

Number of poles

3	Single pole
4	Double pole
5	Three pole
6	Four pole

Terminals

Blank	Solder lugs or straight PC depending on model
M	Solder lugs with Ø 11,9 (15/32) bushing (5600 switches)
MIWR	Wire wrap (for 5200 switches only)
W	Right angle, horizontal mounting (5200 - 5400 switches)
WW	Right angle, vertical mounting (5200 - 5400 switches)
Y] Y4] Y6] Y7]	Bracket mounting (5200 switches)
Z	Quick connect (5200 - 5100 - 5900 switches)

Terminals and bushing

0	Straight PC terminals, 5,08 (.200) terminal spacing, **with Ø 6,35 (1/4)** threaded bushing
1	Straight PC or quick-connect terminals, 4,70 (.185) terminal spacing, **with Ø 6** (.236) threaded bushing.
2	Straight PC terminals, 4,70 (.185) terminal spacing, right angle, quick-connect or wire wrap terminals, **with 6,35 (1/4)** threaded bushing
3	Straight PC terminals, 4 (.157) terminal spacing, **with Ø 6** (.236) threaded bushing
4	Straight PC terminals, 4 (.157) terminal spacing or right angle terminals , **with Ø 6,35 (1/4)** threaded bushing
5	Solder lug terminals, **with Ø 6 (.236)** threaded bushing.
6	Solder lug terminals, **with Ø 6,35 (1/4) or Ø 11,9 (15/32)** threaded bushing.
7	Solder lug terminals, with Ø 6,35 (1/4) **flatted** bushing.
9	Straight PC or quick-connect terminals, with Ø 6,35 (1/4) **flatted** bushing, 4,70 (.185) terminal spacing.

Electrical functions

6	ON	-	ON
9	ON	OFF	ON
7	MOM	OFF	MOM
8	ON	OFF	MOM
2	ON	-	MOM
4	ON	ON	ON
	ON	ON	MOM ▲
	MOM	ON	MOM ▲

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

Connections for function 4

TH	Standard
CT	Reversed

See wiring diagrams end of catalogue.
. For functions 4, 4-1R, 4-2R (leave blank for all other functions).

Momentary for function 4

1R	ON	ON	MOM
2R	MOM	ON	MOM

Leave blank for other functions.

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.

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OPTIONS

5000 series

Toggle switches

Overview

Finish

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

Fluorescent tip

Blank None
-038 White fluorescent tip to lever

Available with matt black finish (G) only.

Special options

Blank No special requirement
X408 Front panel sealing by two O-rings
X404 Horizontal right angle with reduced overall dimensions

Other : specific bushing height, PC terminal length, finish, ratings, etc... See following pages.

Caps and paddles

Caps	Length
U270	11 (.433)
U1710	7,3 (.287)
Paddles	
U240N	12,4 (.488)
U290N	20 (.787)
U390N	21,5 (.846)

Contact materials

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

For peak currents, see X814, under Special Options.

Sealing

Blank No sealing except where standard
B Epoxy sealed terminals
K Front panel sealing by one O-ring and sealing washer

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

Levers

Length with	threaded bushing	plain bushing
Blank (std)	10,5 (.413)	13,5 (.531)
-2	16 (.629)	19 (.748)
-7	-	6,6 (.259)
-8 (flat)	21,3 (.838)	-
-9 (flat)	11,4 (.448)	-
-12 (flat)	6,3 (.248)	-
-16	5,5 (.216)	8,5 (.334)
-17	7 (.275)	10 (.393)
-21 (+ U640) insulated	21,3 (.838)	-
-22	21,3 (.838)	-
-23	14 (.551)	-
Blank (large)	17,5 (.688)	-
-25	16,30 (.642)	
-27 (large)	11,7 (.460)	-
-4N	9 (.354)	12 (.472)

4N for use with paddle actuators only.

Locking levers

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

Other, consult factory.
For models with Ø 6,35 (1/4) bushing.

Approvals

UL
CSA
CECC

Availability :
Consult factory for details of approved models.

For VDE, refer to 55000.

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.

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5000 series

Toggle switches

Specifications

ELECTRICAL SPECIFICATIONS

- Current/voltage rating with resistive load :

Contact	Maximum	Minimum	Level*
Silver (A)	4A 30VDC	50mA 10VDC	III and IV
Silver, gold plated (AD)	4A 30VDC Gold plating withstands up to 100mA 30VDC	10mA 50mV 10µA 5V	I to IV
Brass, gold plated (CD)	0,4 VA at 20VAC or DC	10mA 50mV 10µA 5V	I and II

- For inductive, lamp or capacitive load, consult factory.
- 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

* For details, see Technical Information, end of catalogue.

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 currrents, 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

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.

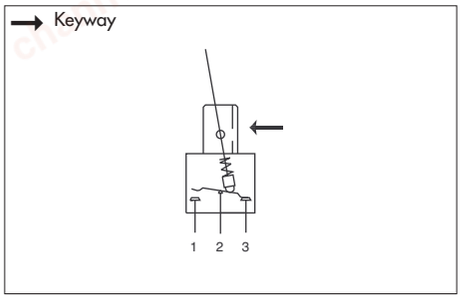
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MODEL STRUCTURE

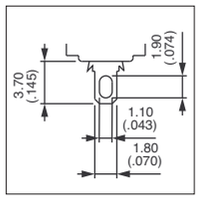
5000 series

Toggle switches - solder lug terminals

Threaded bushing Ø 6,35 (1/4) : 5600

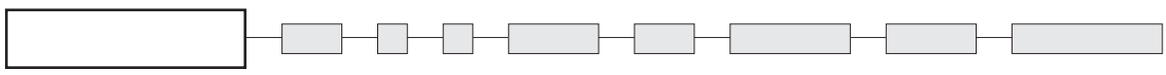


- 1, 2, 3 and 4 pole configurations



A

MODEL STRUCTURE

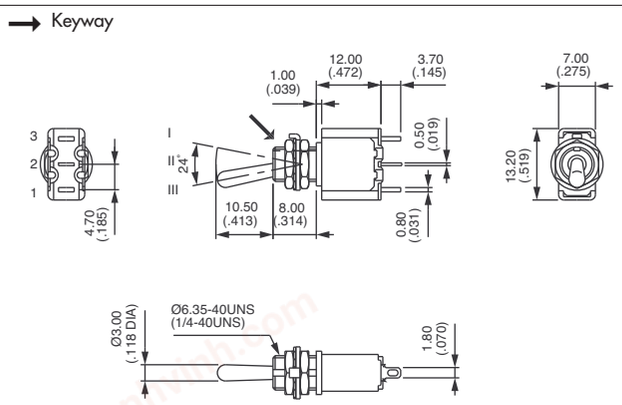


Shown with standard lever

Single pole



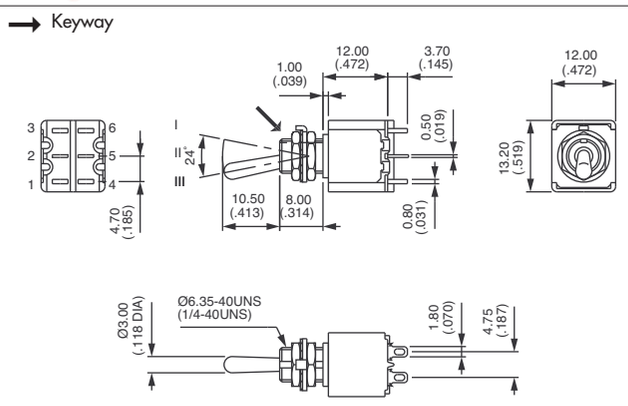
	III	II	I
	2-3		1-2
5636	ON	-	ON
5639	ON	OFF	ON
5637	MOM	OFF	MOM
5638	ON	OFF	MOM
5632	ON	-	MOM



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	OFF	MOM
5642	ON	-	MOM
5644*	ON	ON	ON
5644 1R*	ON	ON	MOM
5644 2R*	MOM	ON	MOM

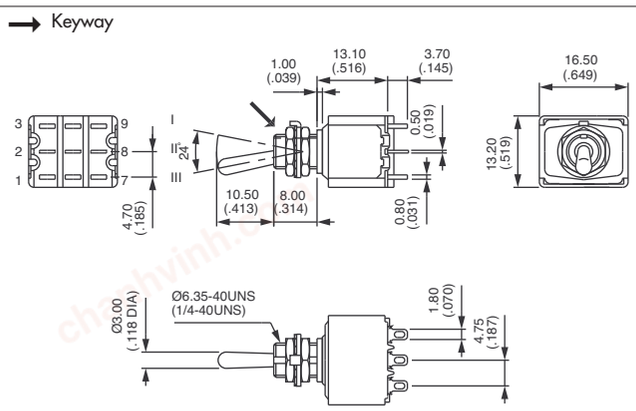


* Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.

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



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Toggle switches - solder lug terminals

Threaded bushing Ø 6,35 (1/4) : 5600

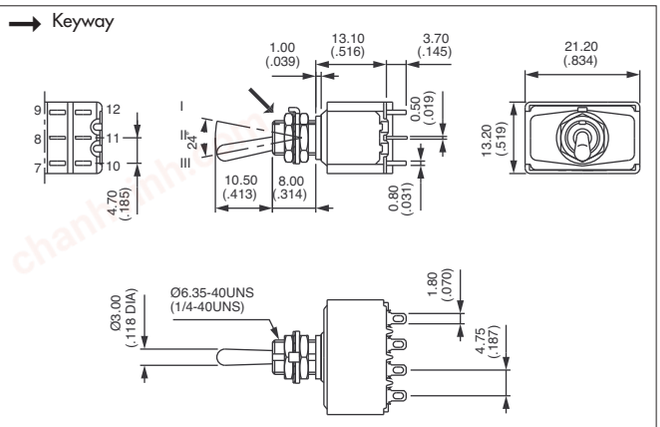
MODEL STRUCTURE

A

Four pole

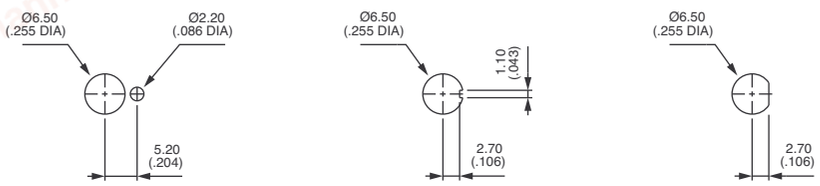


	III	II	I
	2-3		1-2
	5-6		4-5
	8-9		7-8
	11-12		10-11
5666	ON	-	ON
5669	ON	OFF	ON
5667	MOM	OFF	MOM
5668	ON	OFF	MOM
5662	ON	-	MOM
5664*	ON	ON	ON
5664 1R*	ON	ON	MOM
5664 2R*	MOM	ON	MOM



*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

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MODEL STRUCTURE

5000 series

Toggle switches - solder lug terminals

5700 models

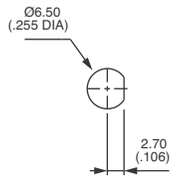
- **Flatted bushing Ø 6,35 mm (1/4)**
- 1, 2, 3 and 4 pole configurations

Diagram as per 5600 model

MODEL STRUCTURE

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

PANEL CUT-OUT



Standard or
with **K** sealing option

5500 models

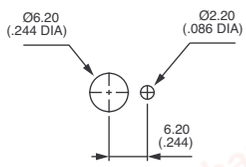
- **Threaded bushing Ø 6 mm x 0.75 SI (.236 x 0.75 IS)**
- 1, 2, 3 and 4 pole configurations

Diagram as per 5600 model

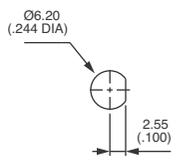
MODEL STRUCTURE

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

PANEL CUT-OUT



Standard



With **X408** sealing option

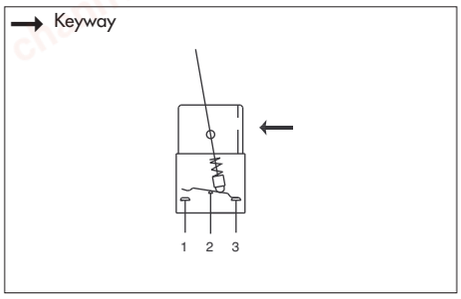
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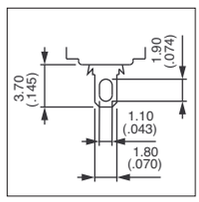
Toggle switches - solder lug terminals

Threaded bushing Ø 11,9 (15/32) : 5600M

MODEL STRUCTURE

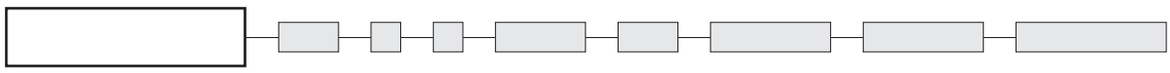


- 1, 2, 3 and 4 pole configurations
- Supplied with 2 hex nuts and 1 locking ring
- Panel thickness up to 6 mm (.236)



A

MODEL STRUCTURE

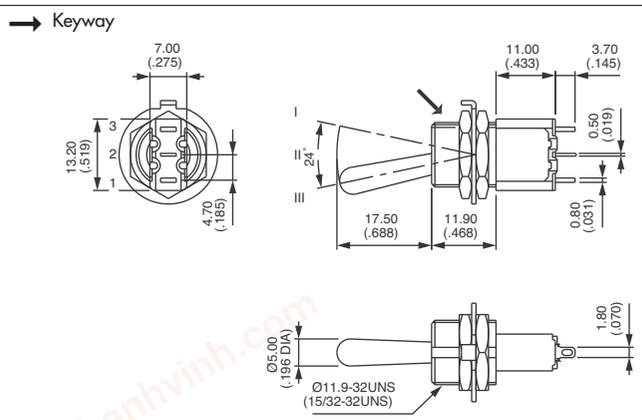


Shown with standard lever

Single pole



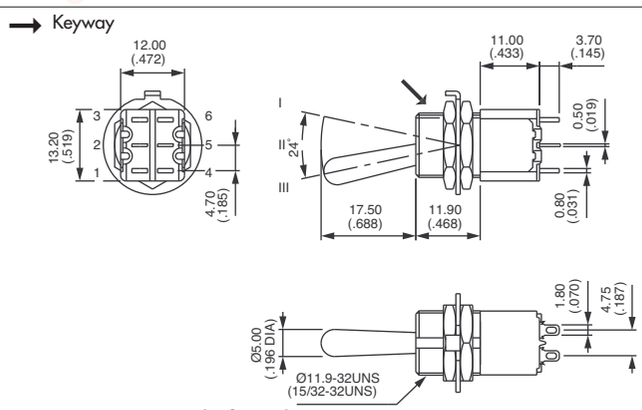
	III	II	I
	2-3		1-2
5636M	ON	-	ON
5639M	ON	OFF	ON
5637M	MOM	OFF	MOM
5638M	ON	OFF	MOM
5632M	ON	-	MOM



Double pole



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

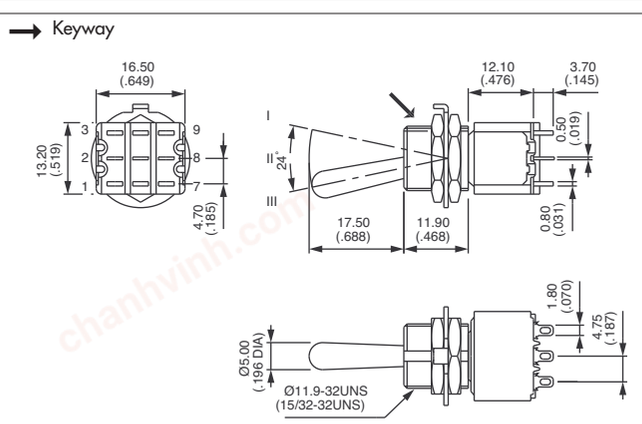


* Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.

Three pole



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



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MODEL STRUCTURE

5000 series

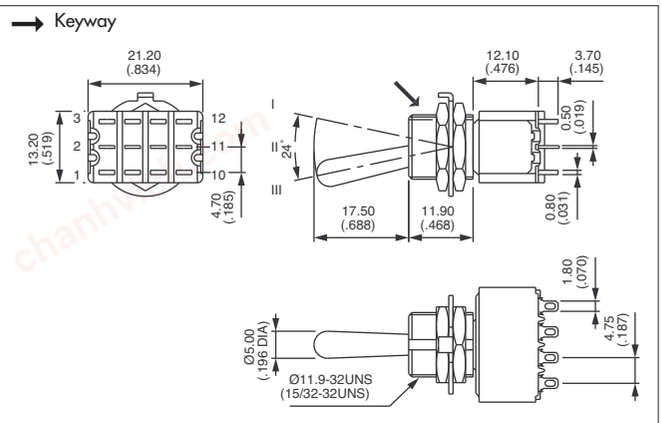
Toggle switches - solder lug terminals

Threaded bushing Ø 11,9 (15/32) : 5600M

Four pole

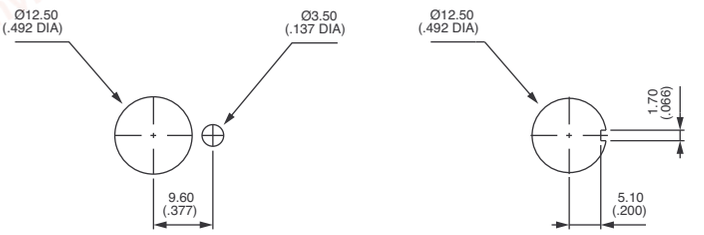


	III	II	I
	2-3		1-2
	5-6		4-5
	8-9		7-8
	11-12		10-11
5666M	ON	-	ON
5669M	ON	OFF	ON
5667M	MOM	OFF	MOM
5668M	ON	OFF	MOM
5662M	ON	-	MOM
5664M*	ON	ON	ON
5664M 1R*	ON	ON	MOM
5664M 2R*	MOM	ON	MOM



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

PANEL CUT-OUT



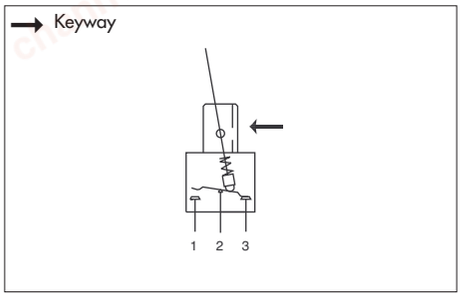
OTHER : M bushing can be combined with other types such as : 5200, Z, MIWR... Consult factory.

5000 series

Toggle switches - straight PC terminals

Threaded bushing Ø 6,35 (1/4) : 5200

MODEL STRUCTURE

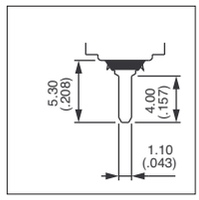


- **Terminal spacing 4,7 mm (.185)**
- 1, 2, 3 and 4 pole configurations
- Epoxy sealed terminals standard

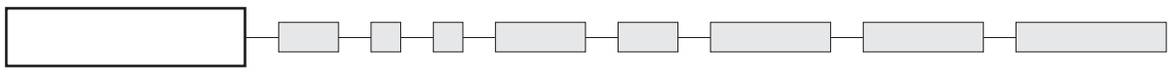
For new projects, we recommend switches with support bracket (option Y) which holds the switch securely on the PCB.

Other terminal lengths presented under "Special options".

Also available with plain bushing, see "Special options" X371



MODEL STRUCTURE

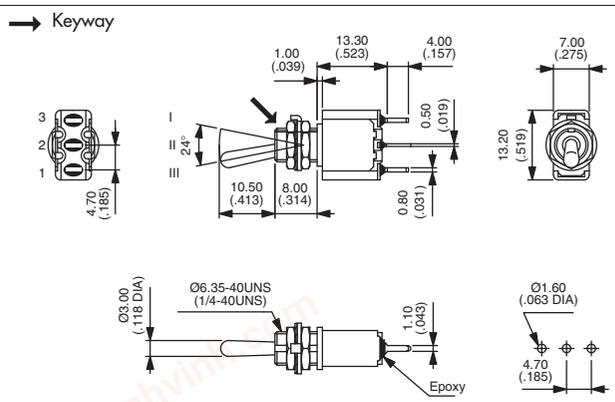


Shown with standard lever

Single pole



	III	II	I
	2-3		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

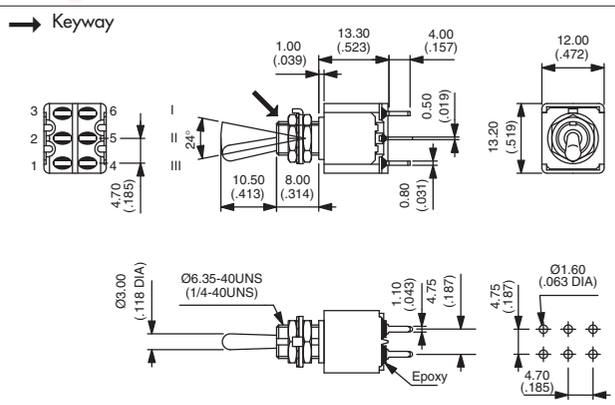


Double pole



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

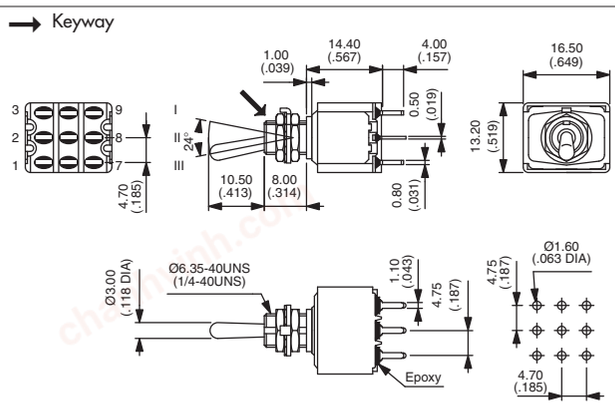
*Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.



Three pole



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



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MODEL STRUCTURE

5000 series

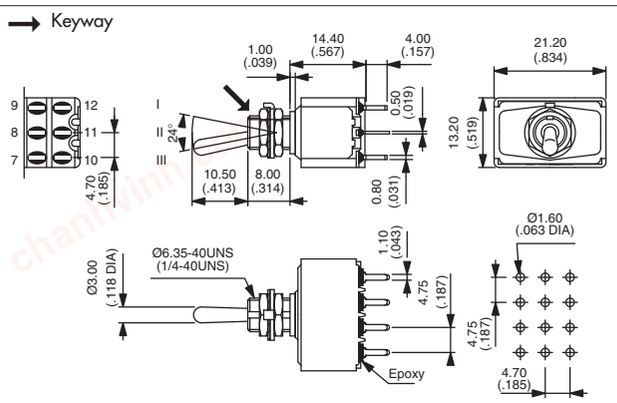
Toggle switches - straight PC terminals

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

Four pole



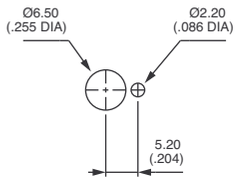
	III	II	I
	2-3		1-2
	5-6		4-5
	8-9		7-8
	11-12		10-11
5266 B	ON	-	ON
5269 B	ON	OFF	ON
5267 B	MOM	OFF	MOM
5268 B	ON	OFF	MOM
5262 B	ON	-	MOM
5264 B*	ON	ON	ON
5264 1R B*	ON	ON	MOM
5264 2R B*	MOM	ON	MOM



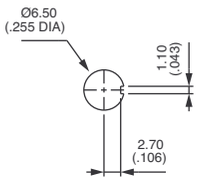
*Function 4 : DP in 4P case - specify CT ot TH connections, see end of catalogue.

PANEL CUT-OUT

5200 - 5000 - 5400



Standard

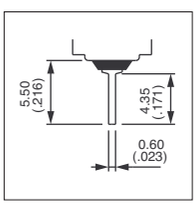


With **K** sealing option

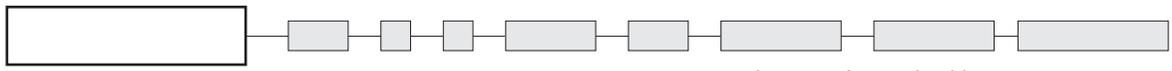
Diagram as per 5200 model

5000 models

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



MODEL STRUCTURE

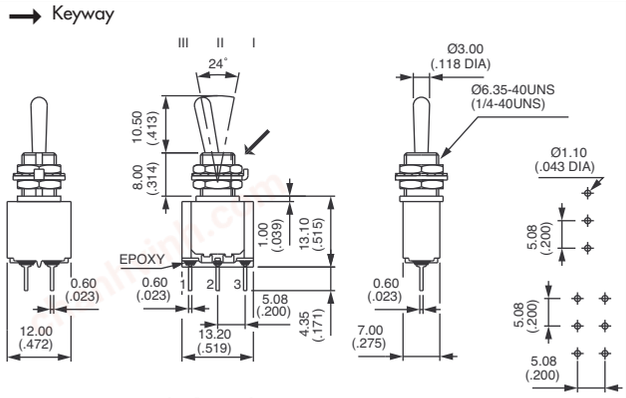


Shown with standard lever

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



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



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

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5000 series

Toggle switches - straight PC terminals

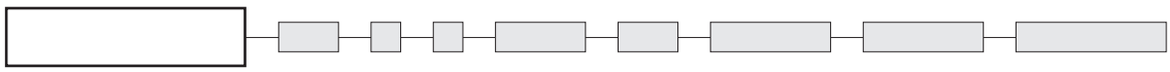
MODEL STRUCTURE

Diagram, as per 5200 model

5400 models

- **Threaded bushing Ø 6,35 mm (1/4)**
- **Terminal spacing 4 mm (.157)**
- 1, 2, 3 and 4 pole configurations

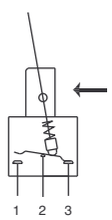
MODEL STRUCTURE



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

Panel cut-out, see 5200.

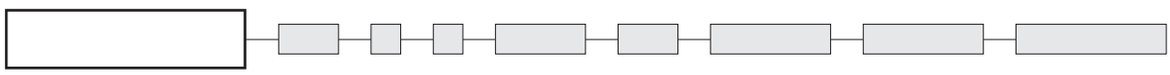
Flat



5900 models

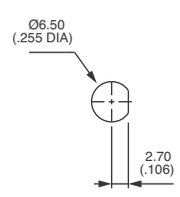
- **Flatted bushing Ø 6,35 mm (1/4)**
- **Terminal spacing 4,7 mm (.185)**
- 1, 2, 3 and 4 pole configurations

MODEL STRUCTURE



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

PANEL CUT-OUT



Standard or
with **K** sealing option

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MODEL STRUCTURE

5000 series

Toggle switches - straight PC terminals

Diagram, as per 5200 model

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

MODEL STRUCTURE

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

Diagram, as per 5200 model

5300 models

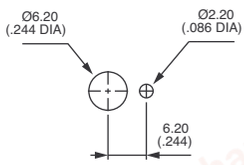
- **Threaded bushing Ø 6 mm x 0.75 SI (.236 x 0.75 IS)**
- **Terminal spacing 4 mm (.157)**
- 1, 2, 3 and 4 pole configurations

MODEL STRUCTURE

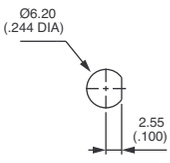
For model structure numbers, refer to **5200** models and replace 2 with 3.

PANEL CUT-OUT

5100 - 5300



Standard



With **X408** sealing option

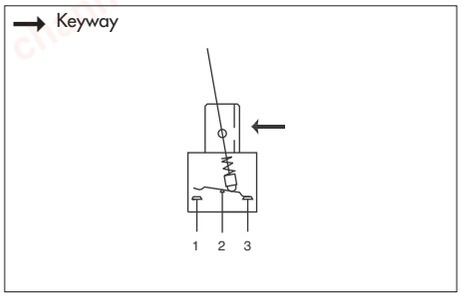
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5000 series

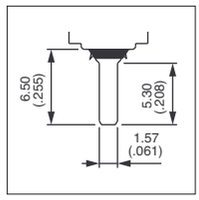
Toggle switches - quick-connect terminals

Threaded bushing Ø 6,35 (1/4) : 5200Z

MODEL STRUCTURE

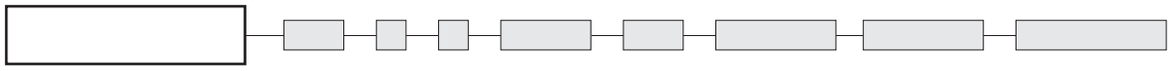


- **Terminal spacing 4,7 mm (.185)**
- Epoxy sealed terminals standard
- 1and 2 pole configurations



A

MODEL STRUCTURE

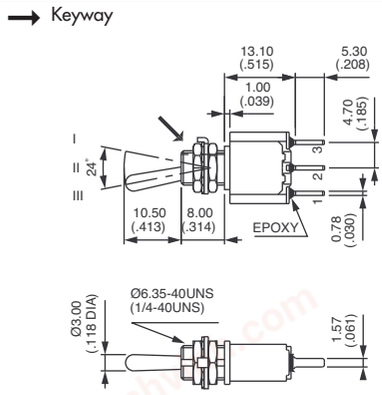


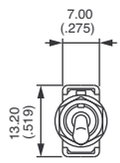
Shown with standard lever

Single pole



	III	II	I
	2-3		1-2
5236Z	ON	-	ON
5239Z	ON	OFF	ON
5237Z	MOM	OFF	MOM
5238Z	ON	OFF	MOM
5232Z	ON	-	MOM

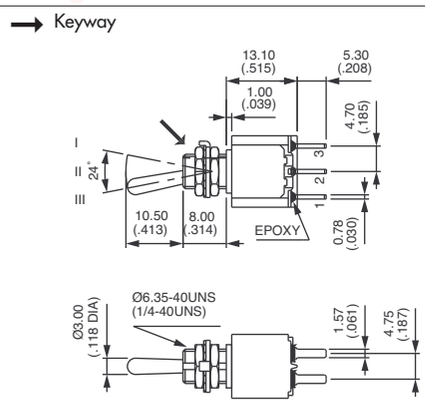


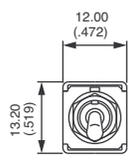


Double pole



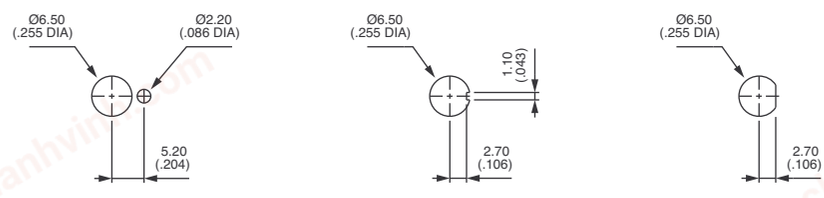
	III	II	I
	2-3		1-2
	5-6		4-5
5246Z	ON	-	ON
5249Z	ON	OFF	ON
5247Z	MOM	OFF	MOM
5248Z	ON	OFF	MOM
5242Z	ON	-	MOM
5244Z*	ON	ON	ON
5244Z 1R*	ON	ON	MOM
5244Z 2R*	MOM	ON	MOM





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

PANEL CUT-OUT



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5000 series

Toggle switches - quick-connect terminals

Diagram, as per 5900 model

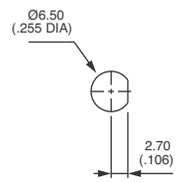
5900Z models

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

MODEL STRUCTURE

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

PANEL CUT-OUT



Standard or
with **K** sealing option

Diagram, as per 5200 model

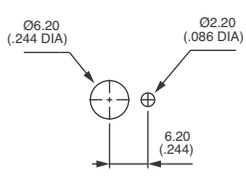
5100Z models

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

MODEL STRUCTURE

For model structure numbers, refer to **5200Z** models and replace 2 with 1.

PANEL CUT-OUT



Standard

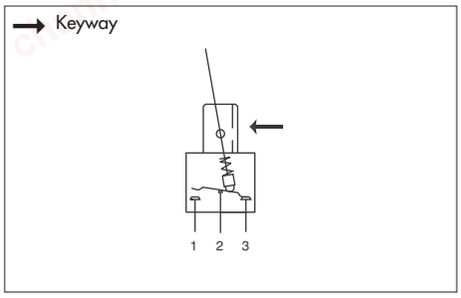
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5000 series

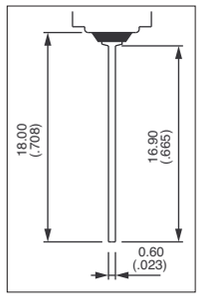
Toggle switches - wire-wrap terminals

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

MODEL STRUCTURE

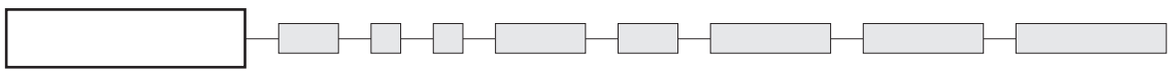


- **Terminal spacing 5,08 mm (.200)**
- Epoxy sealed terminals standard
- 1and 2 pole configurations
- Can also be used as extended PCB terminals



A

MODEL STRUCTURE

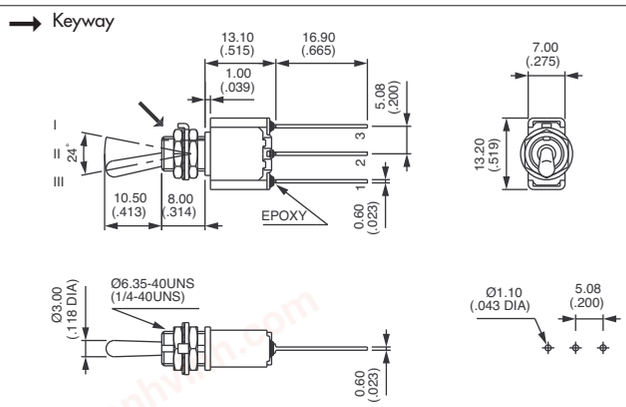


Shown with standard lever

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



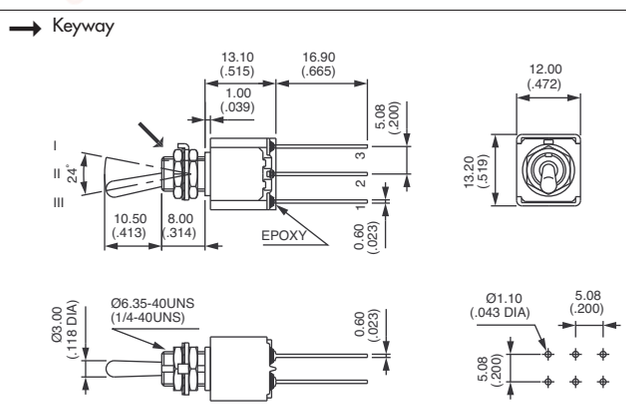
	III	II	I
	2-3		1-2
5236MIWR	ON	-	ON
5239MIWR	ON	OFF	ON
5237MIWR	MOM	OFF	MOM
5238MIWR	ON	OFF	MOM
5232MIWR	ON	-	MOM



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

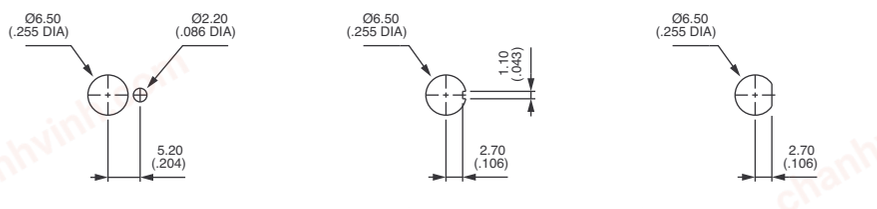


	III	II	I
	2-3		1-2
	5-6		4-5
5246MIWR	ON	-	ON
5249MIWR	ON	OFF	ON
5247MIWR	MOM	OFF	MOM
5248MIWR	ON	OFF	MOM
5242MIWR	ON	-	MOM
5244 MIWR*	ON	ON	ON
5244 1R MIWR*	ON	ON	MOM
5244 2R MIWR*	MOM	ON	MOM



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

PANEL CUT-OUT



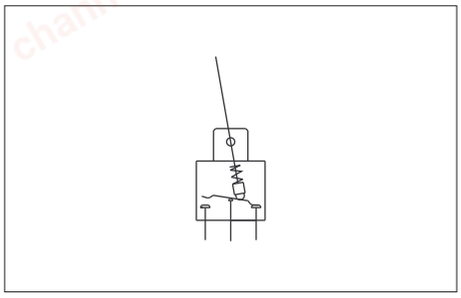
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MODEL STRUCTURE

5000 series

Toggle switches - plain bushing

Right angle terminals - horizontal : 5200W

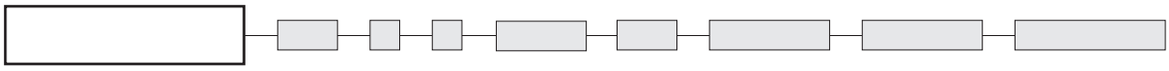


- **Terminal spacing 4,7 mm (.185)**
- 1, 2 and 3 pole configurations

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

A

MODEL STRUCTURE

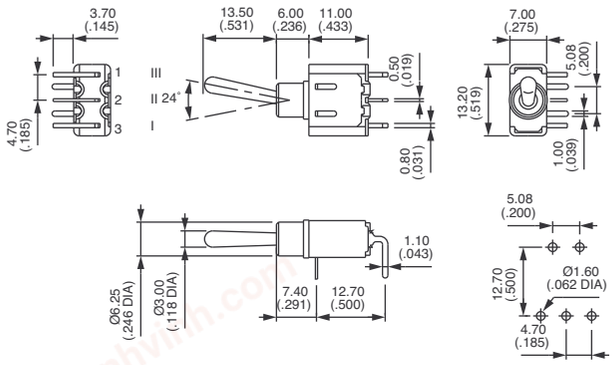


Shown with standard lever

Single pole



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

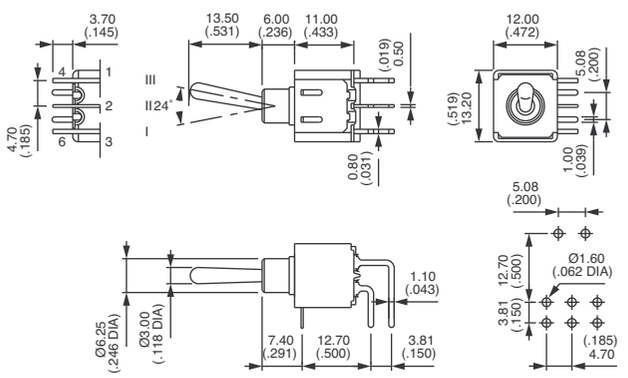


Double pole



	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

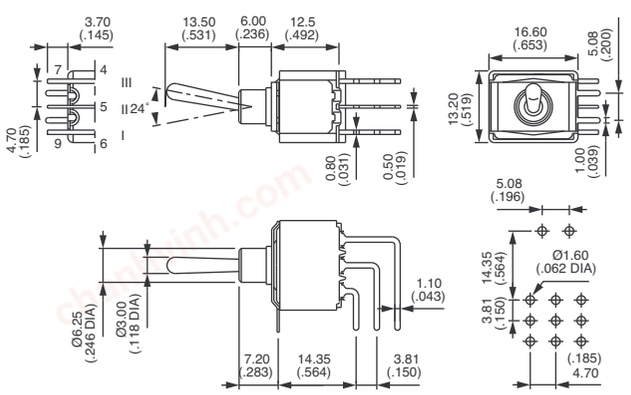
*Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.



Three pole



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



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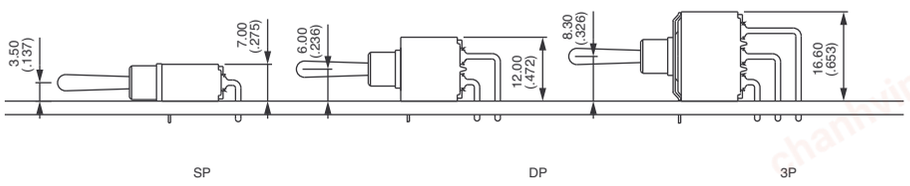
5000 series

Toggle switches - plain bushing

Right angle terminals - horizontal : 5400W

MODEL STRUCTURE

PCB MOUNTING FOR 5200W

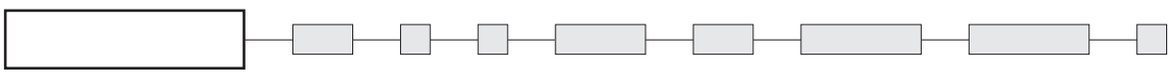


Diagram, as per 5200W model

5400W models

- **Terminal spacing 4 mm (.157)**
- 1and 2 pole configurations

MODEL STRUCTURE



For model structure numbers, refer to **5200W** single and double pole and replace 2 with 4.

PC LAYOUT



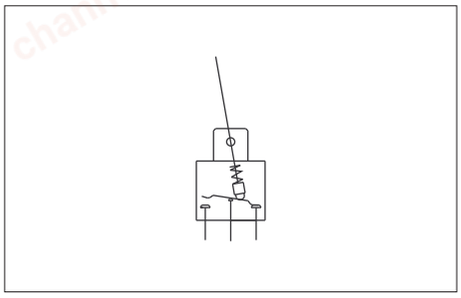
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MODEL STRUCTURE

5000 series

Toggle switches - plain bushing

Right angle terminals - vertical : 5200WW



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

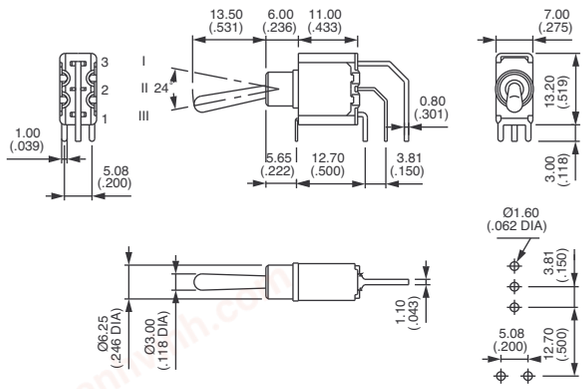
MODEL STRUCTURE

Shown with standard lever

Single pole



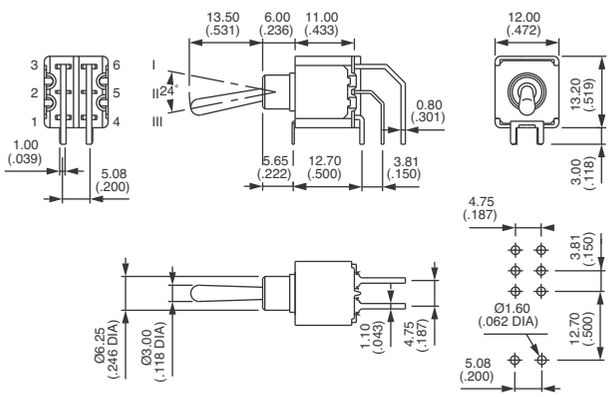
	III	II	I
	2-3		1-2
5236WW	ON	-	ON
5239WW	ON	OFF	ON
5237WW	MOM	OFF	MOM
5238WW**	ON	OFF	MOM
5232WW**	ON	-	MOM



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

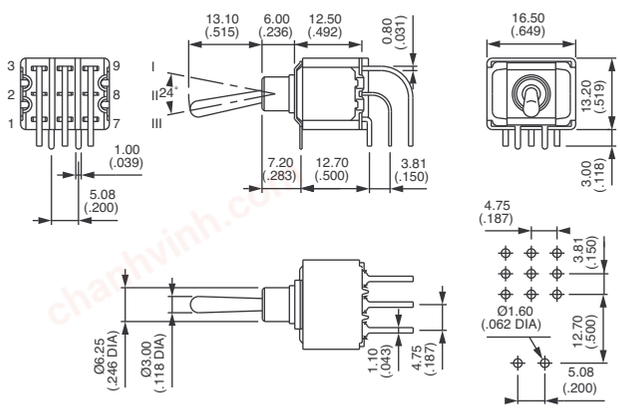


Three pole



	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

* and ** : see notes next page.



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5000 series

Toggle switches - plain bushing

Right angle terminals - vertical : 5200WW - 5400WW

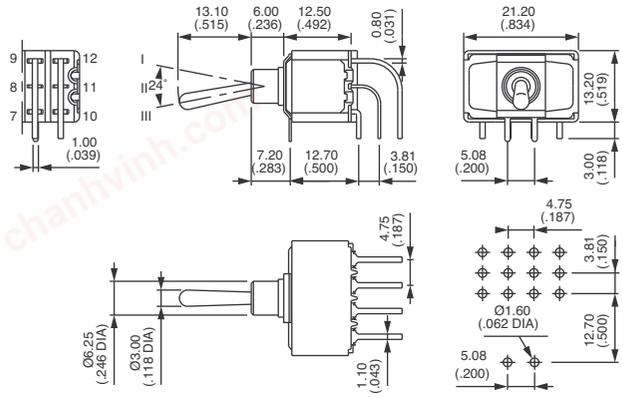
MODEL STRUCTURE

A

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



* 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

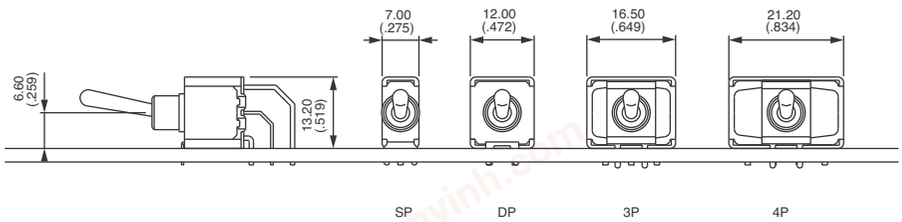
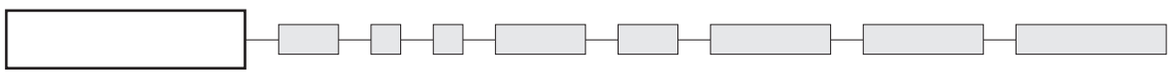


Diagram as per 5200WW model

5400WW models

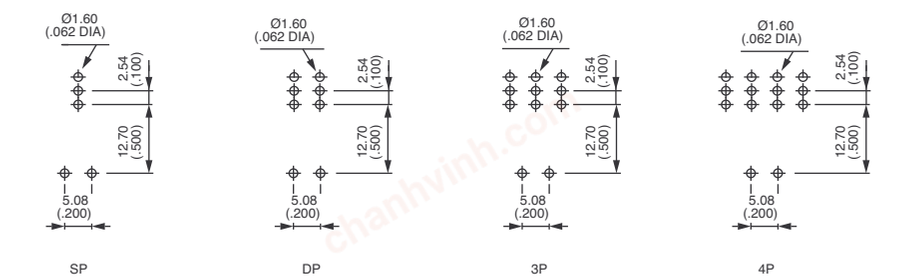
- **Pin spacing 2,54 mm (.100)**
- 1, 2, 3 and 4 pole configurations

MODEL STRUCTURE



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

PC LAYOUT



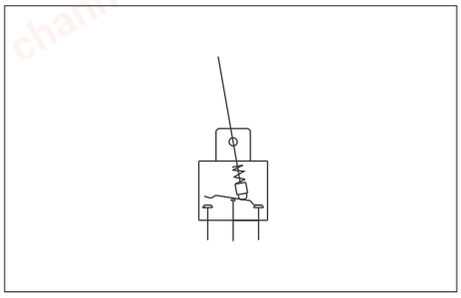
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MODEL STRUCTURE

5000 series

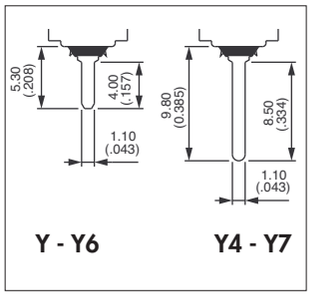
Toggle switches - plain bushing

Straight PC terminals - bracket mounting : 5200Y



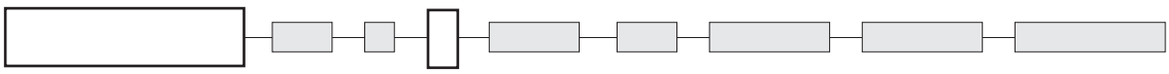
Brackets reduce mechanical stress on solder joints and increase resistance to vibrations.
Bracket material : tin plated steel.

- Epoxy sealed terminals standard
- 1and 2 pole configurations



A

MODEL STRUCTURE

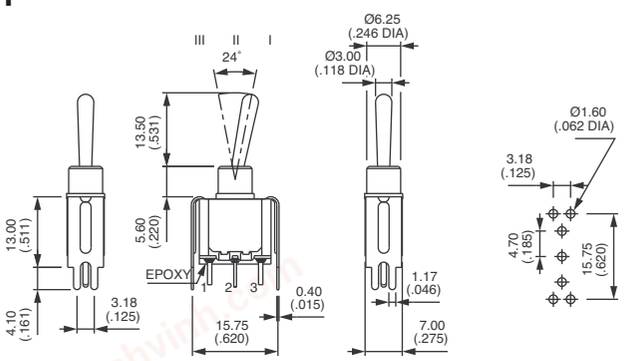


Shown with standard lever

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



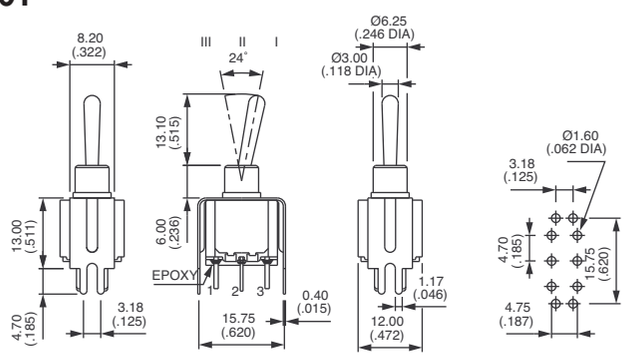
	III	II	I
	2-3		1-2
5236Y B	ON	-	ON
5239Y B	ON	OFF	ON
5237Y B	MOM	OFF	MOM
5238Y B	ON	OFF	MOM
5232Y B	ON	-	MOM



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



	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



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

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5000 series

Toggle switches - plain bushing

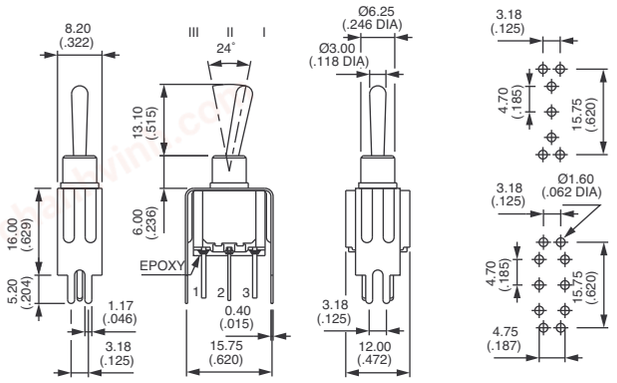
Straight PC terminals - bracket mounting : 5200Y4 - Y6 - Y7

MODEL STRUCTURE

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



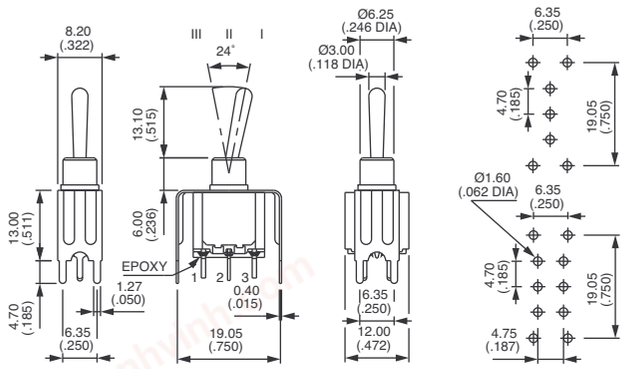
		III	II	I
		2-3		1-2
		5-6		4-5
Single pole	Double pole			
5236Y4 B	**5246Y4 B**	ON	-	ON
5239Y4 B	**5249Y4 B**	ON	OFF	ON
5237Y4 B	**5247Y4 B**	MOM	OFF	MOM
5238Y4 B	**5248Y4 B**	ON	OFF	MOM
5232Y4 B	**5242Y4 B**	ON	-	MOM
	5244Y4 B*	ON	ON	ON
	5244Y4 1R B*	ON	ON	MOM
	5244Y4 2R B*	MOM	ON	MOM



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



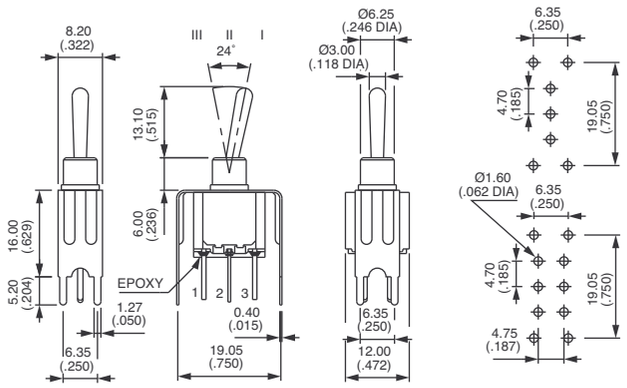
		III	II	I
		2-3		1-2
		5-6		4-5
Single pole	Double pole			
5236Y6 B	**5246Y6 B**	ON	-	ON
5239Y6 B	**5249Y6 B**	ON	OFF	ON
5237Y6 B	**5247Y6 B**	MOM	OFF	MOM
5238Y6 B	**5248Y6 B**	ON	OFF	MOM
5232Y6 B	**5242Y6 B**	ON	-	MOM
	5244Y6 B*	ON	ON	ON
	5244Y6 1R B*	ON	ON	MOM
	5244Y6 2R B*	MOM	ON	MOM



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



		III	II	I
		2-3		1-2
		5-6		4-5
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
	5244Y7 B*	ON	ON	ON
	5244Y7 1R B*	ON	ON	MOM
	5244Y7 2R B*	MOM	ON	MOM



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

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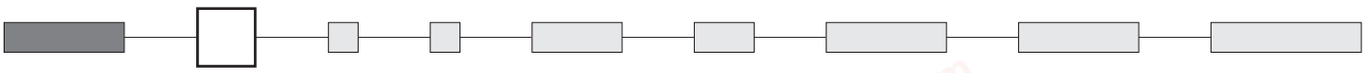
OPTIONS

5000 series

Toggle switches

CONTACT MATERIALS

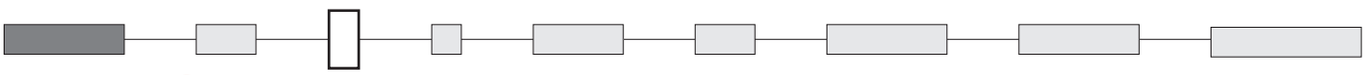
UG1410A



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

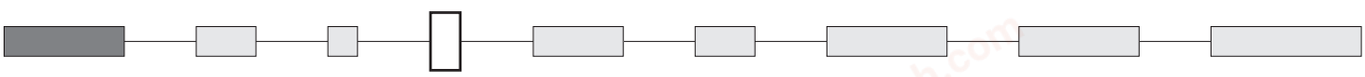
Special contacts for peak currents : see X814, under "Special Options".

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.

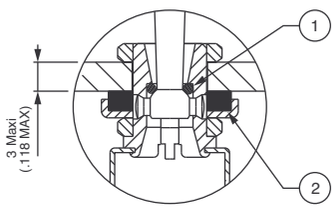
Available on models with Ø 6,35 (1/4) or 11,9 (15/32) **threaded bushing only.**
Not available with levers 8, 9, 12, 22, 23.

KB Combined sealings

① O-ring
② Sealing washer

K with Ø 6,35 (1/4) keyway bushing





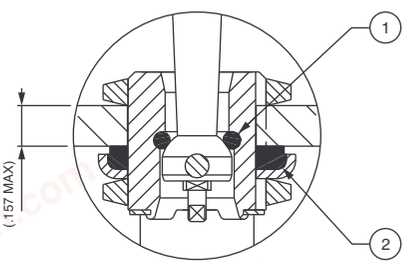
Includes washer
U360

K with Ø 6,35 (1/4) flatted bushing



Includes washer
U5141

K with Ø 11,9 (15/32) keyway bushing



Includes washer
U60

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

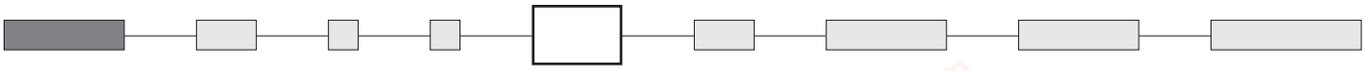
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5000 series

Toggle switches

OPTIONS

FLUORESCENT TIP



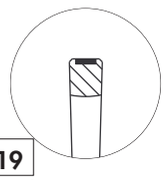
Blank None

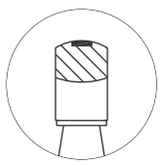
-038 White fluorescent tip.
Becomes luminous when submitted to ultraviolet rays.

⚠ Available with matt black finish (option G) only.

Consult factory for levers available with this option.

Standard lever | Locking lever

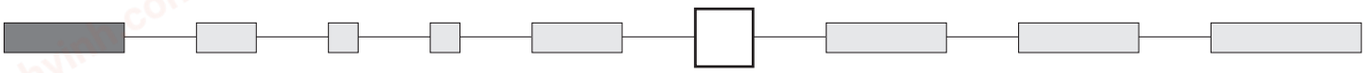




-19

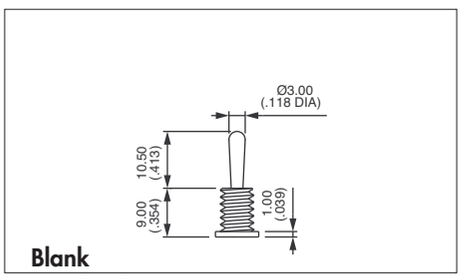
Same dimensions as standard actuator below.

ACTUATORS

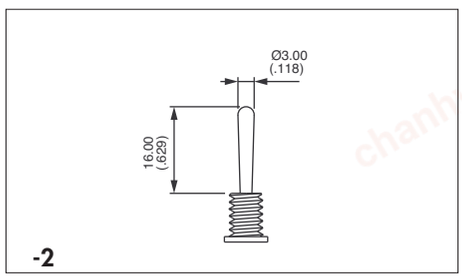


Dash compulsory before lever code.

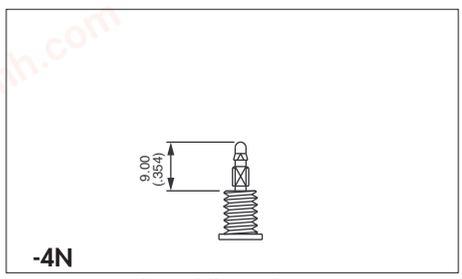
Levers for threaded bushing models Ø 6,35 (1/4) or Ø 6 (.236)



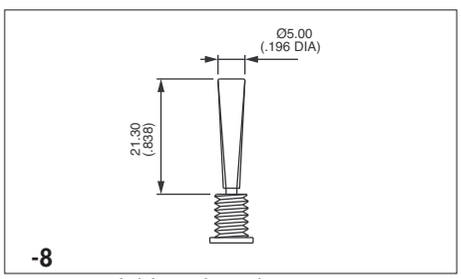
Blank
Standard



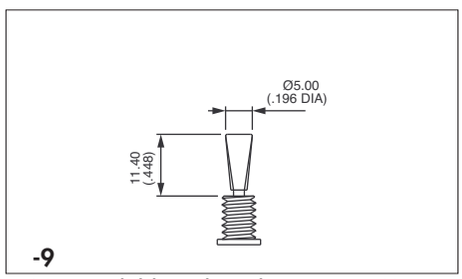
-2



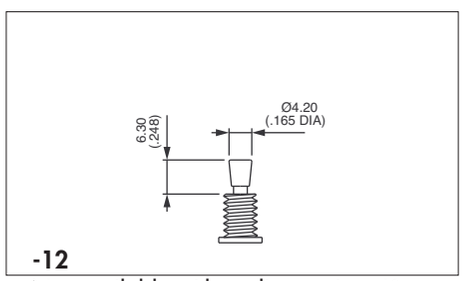
-4N
For use with paddles only



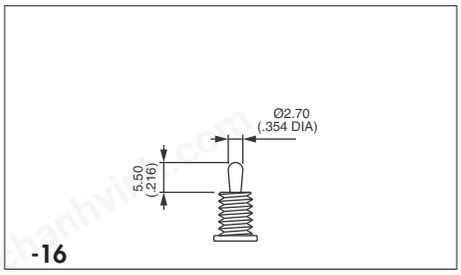
-8
Not available with sealing options K or X408



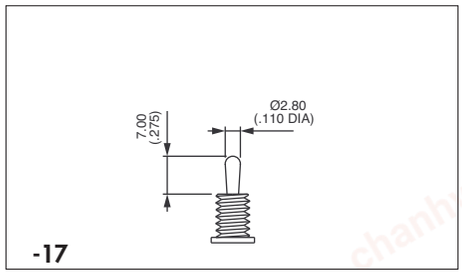
-9
Not available with sealing options K or X408



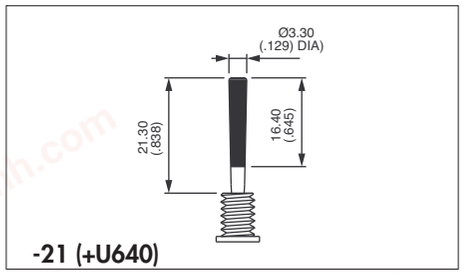
-12
Not available with sealing options K or X408



-16



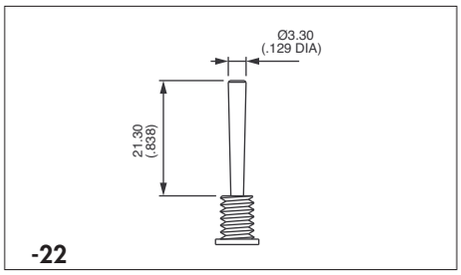
-17



-21 (+U640)
U640 to be placed in last box of ordering format. Replace 0 by colour code.

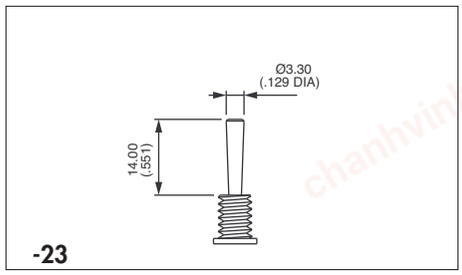
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ACTUATORS (continued)



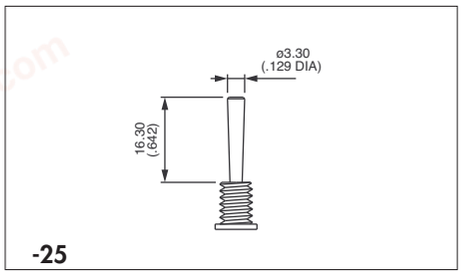
-22

Not available with sealing options K or X408



-23

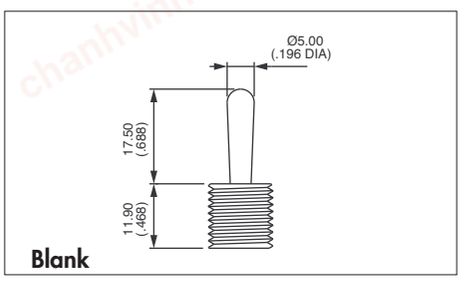
Not available with sealing options K or X408



-25

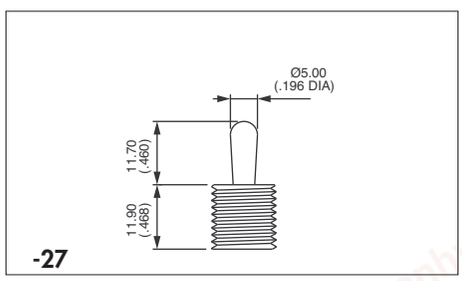
Not available with sealing options K or X408

Levers for threaded bushing models Ø 11,9 (15/32) : 5600M



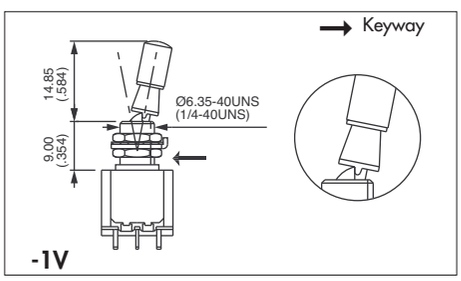
Blank

Standard



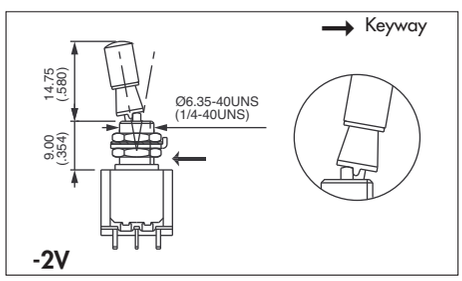
-27

Locking levers



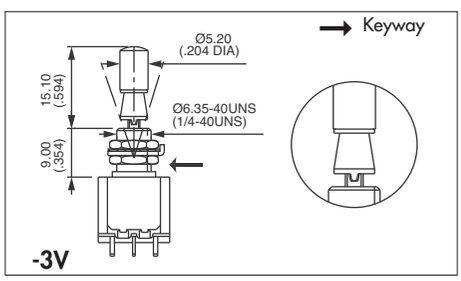
-1V

1 locked position (function 6)



-2V

2 locked positions (function 6)



-3V

3 locked positions (functions 9 and 4)

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.

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5000 series

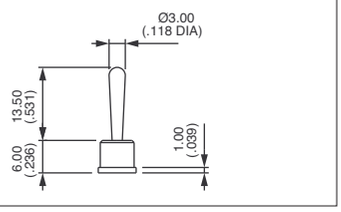
Toggle switches

OPTIONS

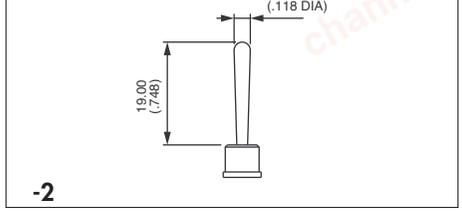
A

ACTUATORS (continued)

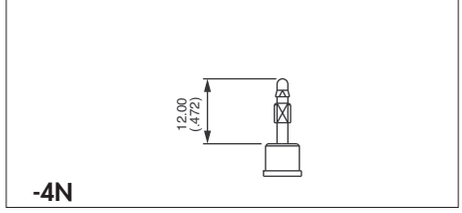
For plain bushing models : W - WW and Y



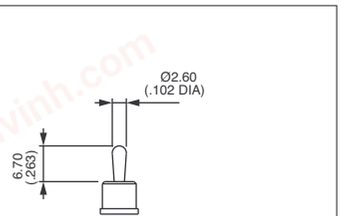
Blank
Standard



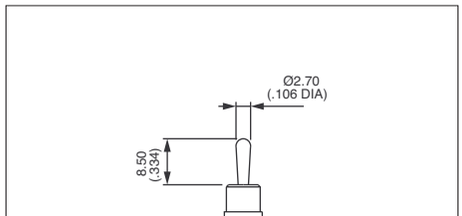
-2



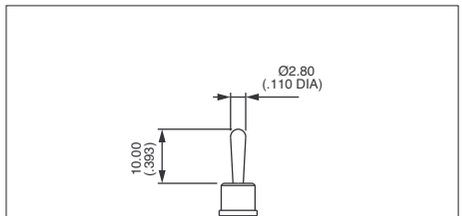
-4N
For use with paddles only



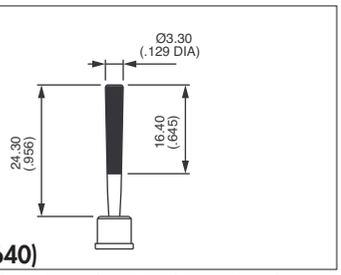
-7



-16



-17



-21 (+U640)
U640 to be placed in last box of ordering format. Replace 0 by colour code.

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

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.

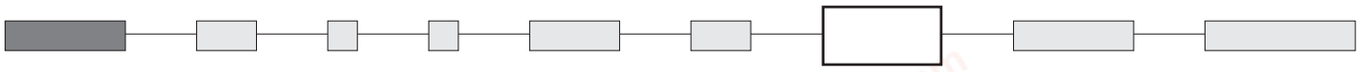
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OPTIONS

5000 series

Toggle switches

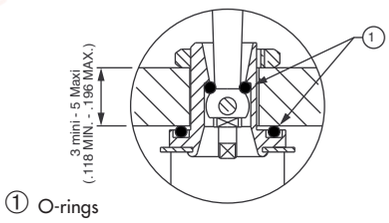
SPECIAL OPTIONS



Blank No special requirement

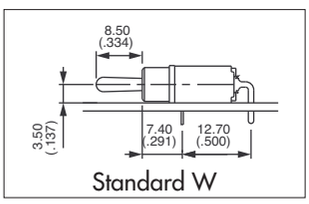
X408 Front panel sealing by two O-rings. Flatted bushing for precise orientation.
Protects the switch against water and dust.
Panel seal withstands 1 bar pressure and remains sealed even when switch is operated. Includes sealed terminals (option B).

⚠ Available only on models with threaded bushing except 5600M.
Not available with levers 8, 9, 12, 22, 23.

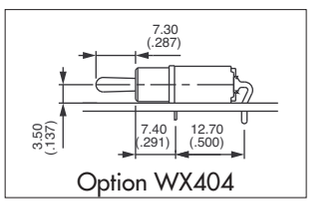


① O-rings

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



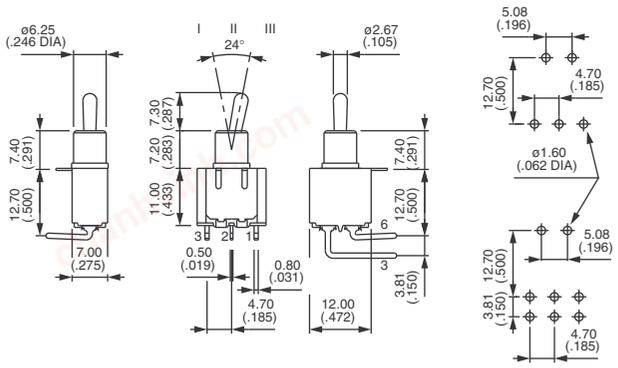
Standard W



Option WX404

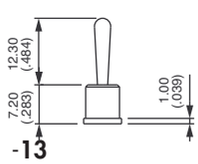


		III	II	I
		2-3		1-2
		5-6		4-5
Single pole	Double pole			
5236W X404	**5246W X404**	ON	-	ON
5239W X404	**5249W X404**	ON	OFF	ON
5237W X404	**5247W X404**	MOM	OFF	MOM
5238W X404	**5248W X404**	ON	OFF	MOM
5232W X404	**5242W X404**	ON	-	MOM
	5244W X404*	ON	ON	ON
	5244W1R X404*	ON	ON	MOM
	5244W2R X404*	MOM	ON	MOM

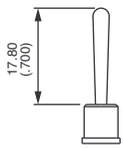


* Function 4 : SP in DP case - specify CT or TH connections, see end of catalogue.

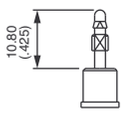
Levers lenghts for WX404 (also available with X445 option)



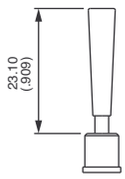
-13



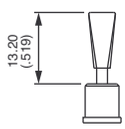
-2



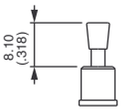
-4N (for paddles)



-8

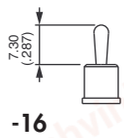


-9

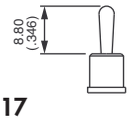


-12

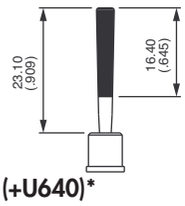
Note : levers -8, -9 and -12 not available with function 2 (ON-MOM)



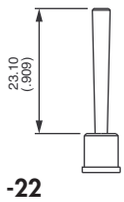
-16



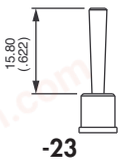
-17



-21 (+U640)*



-22



-23

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

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5000 series

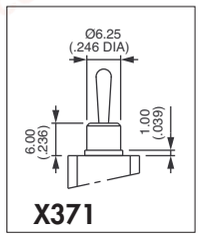
Toggle switches

OPTIONS

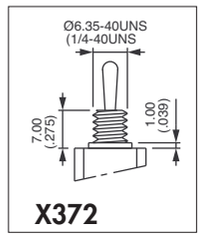
SPECIAL OPTIONS (continued)

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

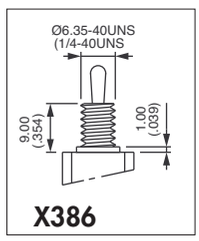
X371 Plain bushing Ø 6,25 mm (.246) (instead of standard threaded bushing).



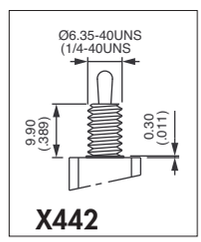
X372 Threaded bushing Ø 6,35 (1/4). **Height 7 mm (.274).**



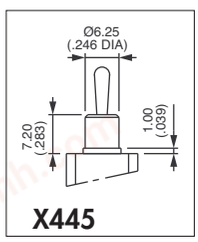
X386 Threaded bushing Ø 6,35 mm (1/4) to replace plain bushing on models W - WW and Y.



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



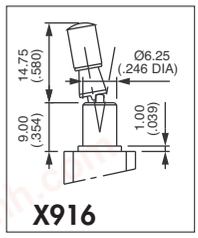
Single pole
5636A X814 ON - ON

Double pole
5646A X814 ON - ON

- Contacts : silver/nickel alloy (AgNi)
- Max. current/voltage rating : 2/120A (1 ms) 60VDC - 10.000 cycles
- Further specifications and dimensions : see 5600 series.
- General information on peak currents : see end of catalogue.

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.



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OPTIONS

5000 series

Toggle switches

AGENCY APPROVALS

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

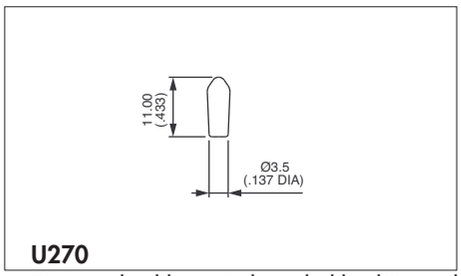
VDE (with UL & CSA) Refer to 55000 series on the following pages.

Preferential lists : see specifications.

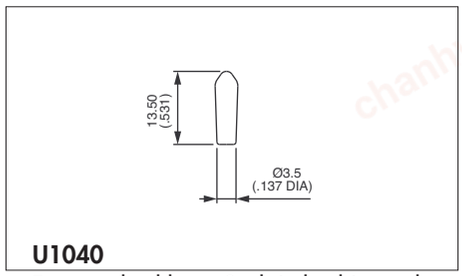
INSULATING CAPS AND PADDLES

+ U...

Insulating caps

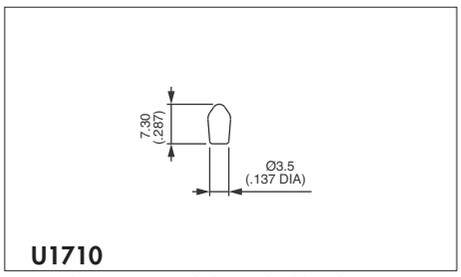


U270
For standard lever & threaded bushing only



U1040
For standard lever & plain bushing only

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



U1710
For lever 17 and threaded bushing
For lever 7 and plain bushing

Insulating caps are not available in ivory colour.

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5000 series

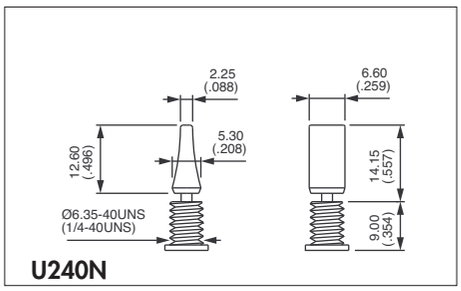
Toggle switches

OPTIONS

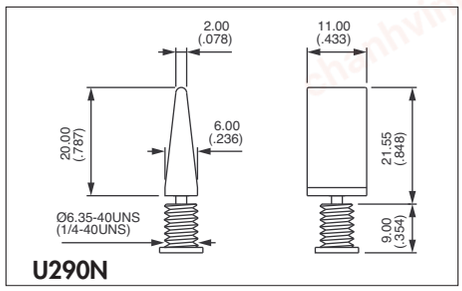
INSULATED CAPS AND PADDLES (continued)

Paddles

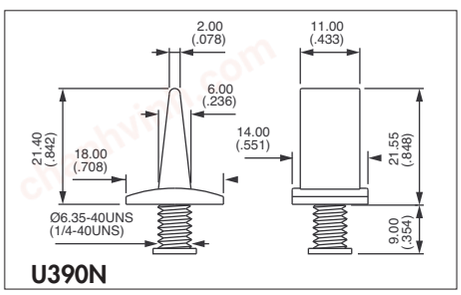
For use with lever 4N only. Shown with standard threaded bushing. Order separately.



U240N



U290N



U390N

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