

ZL SERIES

SUBMINIATURE TOGGLE SWITCHES

Overview - Specifications

ZL						
SERIES	Number of poles	Electrical functions	Terminals	Contact and terminal materials	Bushings	
	3 Single pole	1 ON - OFF 6 ON - ON 9 ON OFF ON 7 MOM OFF MOM 8 ON OFF MOM 2 ON - MOM	S0 Solder lug P0 Straight PC Y0 Bracket mounting W0 Right angle, horizontal mounting WW Right angle, vertical mounting MW Wire-wrap	0 Brass, gold plated 1 Brass, silver plated 3 Brass, gold plated (1,27 micron gold)	00 Plain 01 Threaded, with flat 02 Threaded, with keyway	



NOTICE : Please note that not all combinations of above numbers are available. Refer to the following pages for further information.

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
 - gold plated contacts : 0,4VA 20V max. AC or DC
 - silver plated contacts : 0,5A 48V max. AC or DC
- Minimum load : 10mA 50mV - 10µA 5VDC
- Contact resistance : 20 mΩ max.
- Insulation resistance : 1.000 MΩ min. at 500VDC
- Dielectric strength: 1.000 Vrms 50 Hz min. between terminals and frame
500 Vrms 50 Hz min. between terminals
- Electrical life at full load :

Contacts	Number of cycles	
	2 positions	3 positions
Gold plated	60.000	30.000
Silver plated	20.000	10.000

GENERAL SPECIFICATIONS

- Strength of terminals : pull-out force 10N max.
- Torque : 1 Nm max. applied between the 2 nuts
- Max. panel thickness : 1,5 mm (.059) with 2 nuts - 3 mm (.118) with 1 nut
- Operating temperature : -30°C to +85°C
- Moisture : 21 days 95 % (NFC 20-603 - IEC 8-2-3)

MATERIALS

- Case : thermoplastic UL94-V0
- Actuator : brass, nickel plated
- Bushing : zamac, tin plated
- Contacts and terminals :
 - 0** : brass, gold plated (standard)
 - 1** : brass, silver plated
 - 3** : brass, gold plated (1,27 micron gold)
- Terminal seal : epoxy

SOLDERING

- Hand soldering : 280°C max. for 5 seconds max.
- Wave soldering : 260°C max. for 5 seconds max.



Packaging unit : 100 pieces, except WW models (50 pieces)



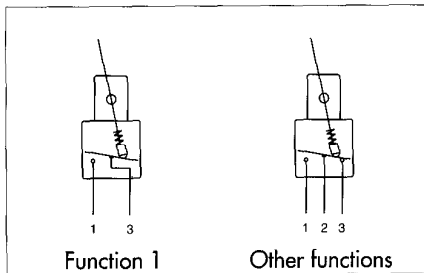
Standard hardware supplied with threaded bushing models : 2 hex nuts 7 mm (.275) across flats, 1 locking ring and 1 lockwasher.

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

Tolerance : The general tolerance for dimensions in this brochure is +/- 0,3 (.012).

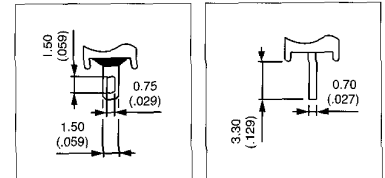
Dimensions, specifications and data shown in this brochure are subject to change without notice.

ZL SERIES SUBMINIATURE TOGGLE SWITCHES



- Single pole
- Gold plated or silver plated contacts
- Epoxy sealed terminals

Also available with wire-wrap terminals
ZL..MW, length 15,20 mm (.598)



**MODEL
STRUCTURE**



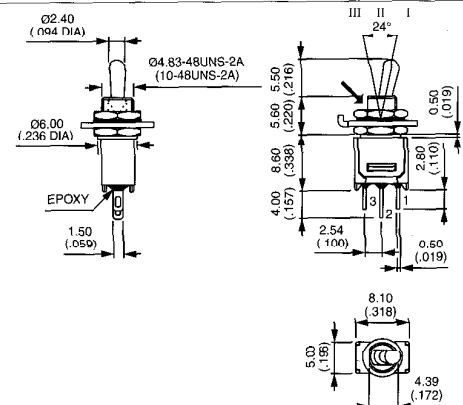
Shown with threaded bushing code 01 or plain bushing code 00

Solder lug terminals - threaded bushing : ZL..S0



ZL31S0
ZL36S0
ZL39S0
ZL37S0
ZL38S0
ZL32S0

III	II	I
ON	-	OFF
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
MOM	OFF	ON
MOM	-	ON



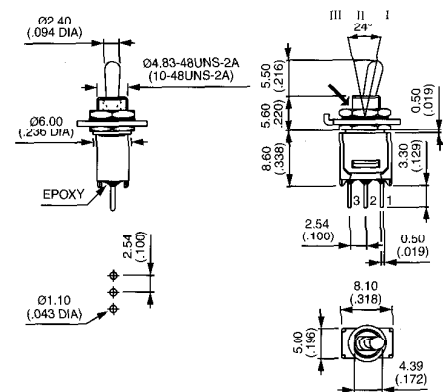
→ Flat

Straight PC terminals - threaded bushing : ZL...P0



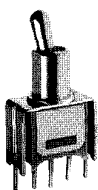
ZL31P0
ZL36P0
ZL39P0
ZL37P0
ZL38P0
ZL32P0

III	II	I
ON	-	OFF
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
MOM	OFF	ON
MOM	-	ON



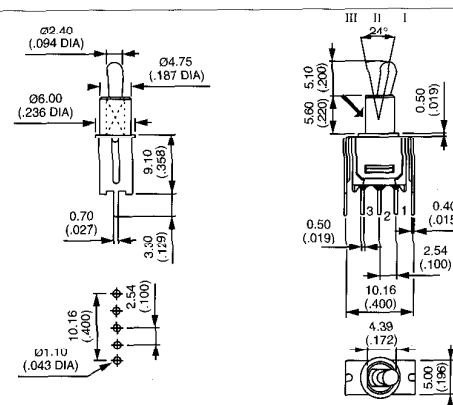
→ Flat

Bracket mounting - plain bushing : ZL..Y0



ZL31Y0
ZL36Y0
ZL39Y0
ZL37Y0
ZL38Y0
ZL32Y0

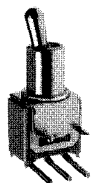
III	II	I
ON	-	OFF
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
MOM	OFF	ON
MOM	-	ON



→ Flat

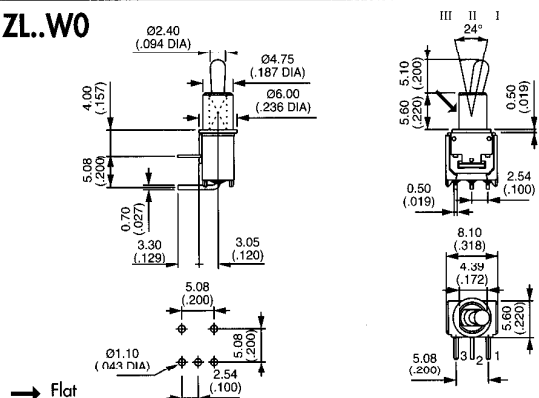
ZL SERIES SUBMINIATURE TOGGLE SWITCHES

Right angle term. - horizontal mounting - plain bushing : ZL..W0

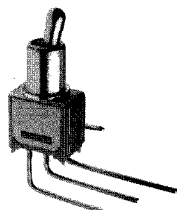


ZL31W0
ZL36W0
ZL39W0
ZL37W0
ZL38W0
ZL32W0

III	II	I
ON	-	OFF
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
MOM	OFF	ON
MOM	-	ON

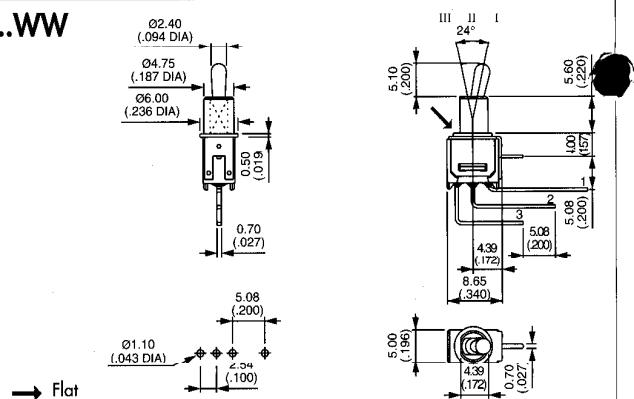


Right angle term. - vertical mounting - plain bushing : ZL..WW



ZL31WW
ZL36WW
ZL39WW
ZL37WW
ZL38WW
ZL32WW

III	II	I
ON	-	OFF
ON	-	ON
ON	OFF	ON
MOM	OFF	MOM
MOM	OFF	ON
MOM	-	ON

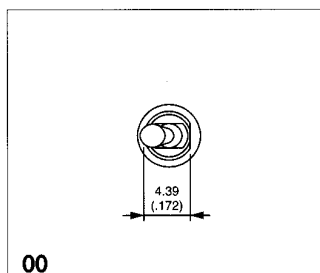
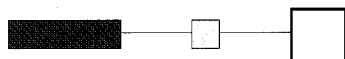


CONTACT AND TERMINAL MATERIALS

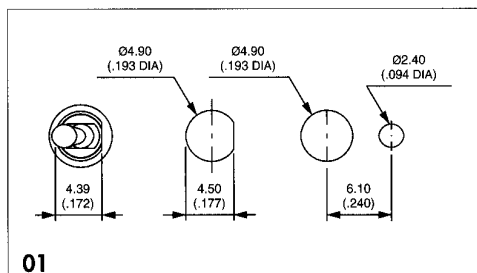


- 0 Brass, gold plated (standard)
- 1 Brass, silver plated
- 3 Brass, gold plated (1,27 micron gold)

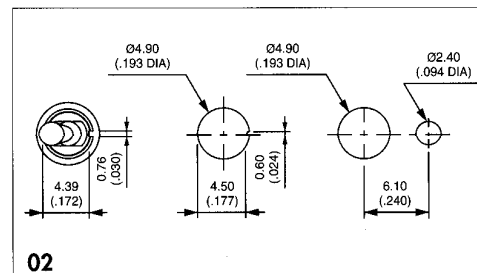
BUSHINGS



00
Plain, with flat
(for models YO, W0 and WW)



01
Threaded, with flat
(for models P0 and S0)



02
Threaded, with keyway
(for models P0 and S0)