ZL series

Tiny toggle switches - metal bushing

Distinctive features - Specifications - Overview



- ❑ **Ø 4,83 mm threaded bushing**
- ❑ **Solder lug and straight PC terminals**

A

ELECTRICALSPECIFICATIONS

- 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

GENERALSPECIFICATIONS

- 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
- 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.

ZL | ☐ | ☐ | ☐ | ☐ | ☐

SERIES

Number of poles

3	Single pole

Electrical functions

1	ON	-	OFF
6	ON	-	ON
9	ON	OFF	ON
7	MOM	OFF	MOM
8	ON	OFF	MOM
2	ON	-	MOM

Terminals

S0	Solder lug
P0	Straight PC

Contact and terminal materials

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

Bushings

01	Threaded, with flat
02	Threaded, with keyway

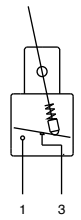
Dimensions : First dimensions are in mm while inches are shown as bracketed numbers.

Packaging unit : 100 pieces

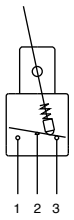
Mounting accessories : Standard hardware supplied with all models : 2 hex nuts 7 mm (.275) across flats P/N U5731, 1 locking ring P/N U5821 (with keyway) or U5831 (with flat) and 1 lockwasher P/N U5841.

ZL series

Tiny toggle switches - metal bushing



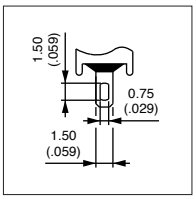
Function 1



Other functions

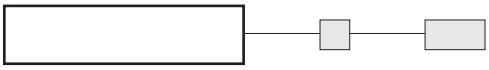
- Single pole
- Gold plated or silver plated contacts
- Epoxy sealed terminals

Other actuator lengths available on request.



A

MODEL STRUCTURE

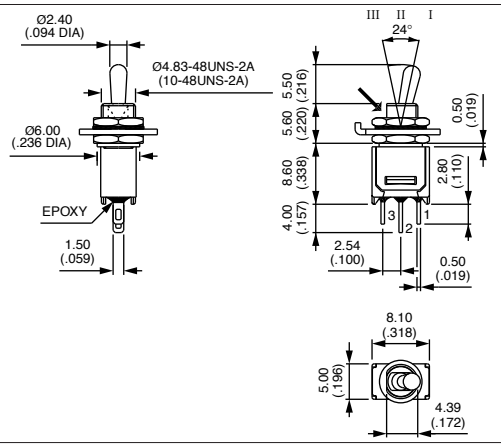


Shown with threaded bushing code 01

Solder lug terminals : ZL..S0



	III	II	I
ZL31S0	ON	-	OFF
ZL36S0	ON	-	ON
ZL39S0	ON	OFF	ON
ZL37S0	MOM	OFF	MOM
ZL38S0	MOM	OFF	ON
ZL32S0	MOM	-	ON

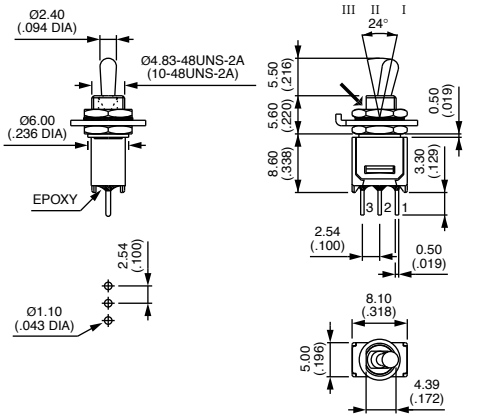


→ Flat

Straight PC terminals : ZL..P0

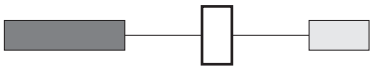


	III	II	I
ZL31P0	ON	-	OFF
ZL36P0	ON	-	ON
ZL39P0	ON	OFF	ON
ZL37P0	MOM	OFF	MOM
ZL38P0	MOM	OFF	ON
ZL32P0	MOM	-	ON



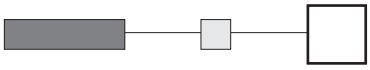
→ Flat

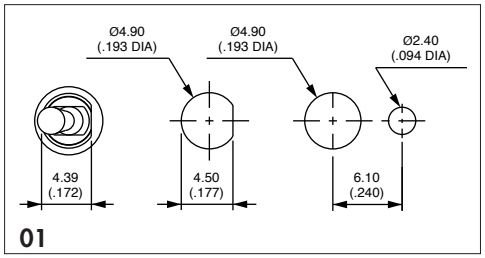
CONTACT & TERMINAL MATERIALS



0 : Brass, gold plated (standard) - **1 :** Brass, silver plated - **3 :** Brass, gold plated (1,27µ gold)

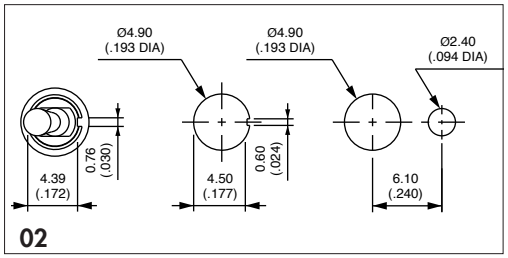
BUSHINGS





01

Threaded, with flat



02

Threaded, with keyway