ZL series

Subminiature toggle switches • metal bushing



DISTINCTIVE FEATURES

Ø 4.83 mm threaded bushing
Solder lug and straight PC terminals



ENVIRONMENTAL SPECIFICATIONS

- Operating temperature : -30 °C to +85 °C (-22 °F to +185 °F)
- Moisture : 21 days 95 % (NFC 20-603 - IEC 8-2-3)

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
  - gold plated contacts : 0.4 VA 20 V max. AC or DC
  - silver plated contacts : 0.5 A 48 V max. AC or DC
- Minimum load : 10 mA 50 mV - 10 µA 5 VDC
- Contact resistance : 20 mΩ max.
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- 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 10 N max.
- Torque : 1 Nm max. applied between the 2 nuts
- Max. panel thickness : 1.5 mm (.059) with 2 nuts

The company reserves the right to change specifications without notice.

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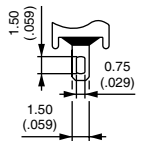
MATERIALS

- 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

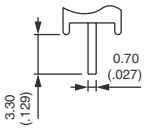
SOLDERING

- Hand soldering : 280 °C (536 °F) max. for 5 seconds max.
- Wave soldering : 260 °C (500 °F) max. for 5 seconds max.

TERMINALS

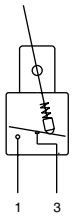


Solder lug **S0**

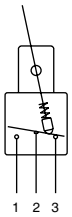


Straight **P0**

ELECTRICAL FUNCTIONS



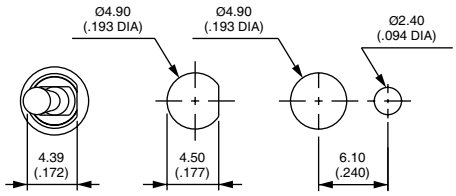
Function **1**



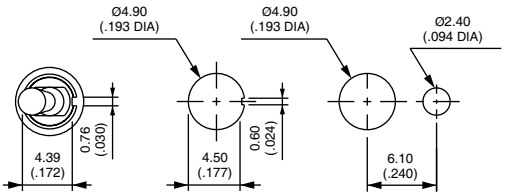
Other function

PANEL CUT-OUT

WITH FLAT



WITH KEYWAY



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BUILD YOUR PART NUMBER

BASIC PART NUMBER

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

OPTIONS

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

MODELS

00	Standard model

ABOUT THIS SERIES

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

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.

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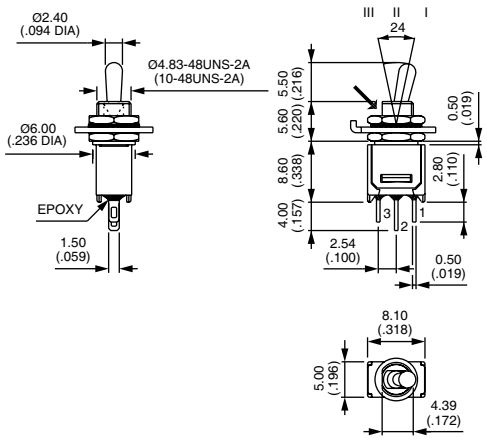
SOLDER LUG TERMINALS



	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

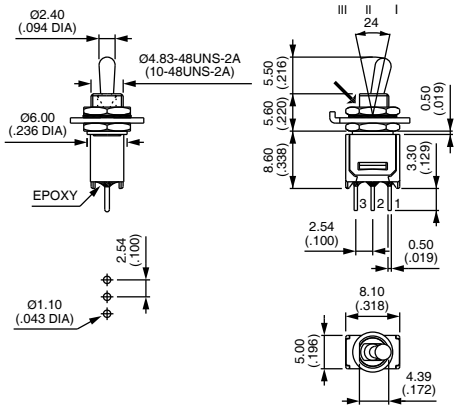


STRAIGHT PC TERMINALS



	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



Shown with threaded bushing code **01**

CONTACT & TERMINAL MATERIALS

BASIC P/N ..... ☐ ..... ☐ 00

0	Brass, gold plated (standard)
1	Brass, silver plated
3	Brass, gold plated (1.27 micron gold)

BUSHINGS

BASIC P/N ..... ☐ ..... ☐ 00

01	Threaded, with flat
02	Threaded, with keyway