L SERIES

SIDE ENTRY LEVEL SWITCHES

Reliable, accurate and low cost tank level control

FEATURES

- 5–500 VAC 15 A S.P.D.T. switch ('H' model)
- Low voltage gold contact 'L' model available
- 316 stainless or polypropylene models
- Available with 1" BSP or NPT thread
- Manual override built in
- Modular construction
- High pressure 400 bar / 5800 psi models available
- Seal-less magnetic drive
- Weatherproof IP67 housing
- Easily serviceable

APPLICATIONS

- Tank and liquid level control
- Low level protection for pumps
- Level control in water treatment
- Chemical tank level monitoring



15 A
S.P.D.T. switch
rated 5–500 VAC

400 bar
5800 psi high
pressure models

IP67
Weatherproof
electrical housing

316 SS
or polypropylene
wetted parts

OUTLINE

The L Series side entry level switch provides a reliable, accurate and low cost solution to tank level control. The switch is available in all-thermoplastic construction or in a combination of 316 stainless steel and polypropylene.

The level switch can be supplied with a 500 V rated single pole double throw microswitch for general control circuit use, or with a single pole double throw gold contact microswitch for PLC, telemetry and other low voltage, low current applications. The L Series level switch is built tough to give a long, reliable service life in the most arduous applications.

ORDERING

The codes below show the different switch models available in the L Series – for example **L-H-25B-SS**.

L – **H** – **25B** – **SS**

SERIES

L Series level switch

SWITCH

- **H** Standard heavy duty switch
- **L** Low voltage gold contact switch

PROCESS CONNECTION

- **25B** 1" BSP thread
- **25N** 1" NPT thread

WETTED MATERIALS

- **Blank** All polypropylene wetted parts
- **SS** Supplied with a high pressure 316 stainless steel process connection and polypropylene paddle

OPERATING LIMITATIONS

PARAMETER	L SERIES WITH POLYPROPYLENE PROCESS CONNECTION	L SERIES WITH STAINLESS PROCESS CONNECTION
Maximum operating pressure (static or dynamic) at ambient temperature	**18 bar** 261 psi	**400 bar** 5800 psi
Minimum burst pressure at ambient temperature	**45 bar** 652 psi	**500 bar** 7215 psi
Maximum operating temperature	**60 °C** see note *	**80 °C** 176 °F
Minimum operating temperature	**–20 °C** –4 °F	**–20 °C** –4 °F
Ingress protection rating	**IP67**	**IP67**

*** PLEASE NOTE** Maximum operating pressure of the all-polypropylene L Series switch must be linearly de-rated as operating temperature is increased, so that at 60 °C (140 °F) the maximum permissible operating pressure for the switch does not exceed one bar (15 psi) absolute.

HAZARDOUS AREAS

The L-H is not certified for use in hazardous areas and must not be installed in any area classified as hazardous under AS/NZS 60079.10 (Zone 0, 1, 2, 20, 21 or 22).

The L-L is simple apparatus under AS/NZS 60079.11 and may be used in a hazardous area only as part of an intrinsically safe circuit, connected through suitably certified associated apparatus. It is not Ex certified in its own right. The associated apparatus must not exceed Uo ≤ 30 V, Io ≤ 100 mA. The full conditions of use are given in the installation sheet.

APPROVED STANDARDS

UL
UL1054 · File No. E41515

CSA
C22.2 No.55 · File No. LR21642

EN
EN61058-1

CE
Marked

The 'H' and 'L' microswitches are approved to UL1054 (File No. E41515), CSA C22.2 No.55 (File No. LR21642) and EN61058-1, and are CE marked.

'H' SWITCH ELECTRICAL DATA

The 'L-H' models use an S.P.D.T. microswitch for general control circuits up to 500 VAC – ideal for pump starters, relay logic, contactors and timers.

IMPORTANT

Use at any voltage from 5 to 500 VAC (minimum load 160 mA at 5 VDC). Directly switches pump motors up to ¼ HP (approx. 185 W) at 240 VAC – use a contactor or relay for larger motors.

RATED VOLTAGE	NON-INDUCTIVE LOADS (A)			INDUCTIVE LOADS (A)		
	RESISTIVE	LAMP		INDUCTIVE	MOTOR	
	NC / NO	NC	NO	NC / NO	NC	NO
125 VAC	15	3	1.5	15	5	2.5
250 VAC	15	2.5	1.25	15	3	1.5
500 VAC	10	1.5	0.75	6	1.5	0.75
8 VDC	15	3	1.5	15	5	2.5
14 VDC	15	3	1.5	10	5	2.5
30 VDC	6	3	1.5	5	5	2.5
125 VDC	0.5	0.5	0.5	0.05	0.05	0.05
250 VDC	0.25	0.25	0.25	0.03	0.03	0.03

'L' SWITCH ELECTRICAL DATA

The 'L-L' models use an S.P.D.T. gold contact microswitch rated down to 1 mA at 5 VDC, so they switch reliably at the low wetting currents of PLC inputs, telemetry and relay logic.

PLEASE NOTE

Not suitable for inductive or capacitive loads (contactors, relays). Loads above the rating will damage the switch.

Switch type	**Gold contact microswitch**
Contact configuration	**S.P.D.T.**
Contact material	**Gold alloy**
Rated current (resistive)	**0.1 A at 125 VAC** **0.1 A at 8, 14 and 30 VDC**
Inrush current	**0.1 A maximum (NC and NO)**
Minimum applicable load	**1 mA at 5 VDC**
Operating range (micro load)	**5 to 30 V, 5 to 800 mW** **(26 mA maximum at 30 V)**
Contact resistance	**50 mΩ maximum (initial)**
Typical applications	**PLC, telemetry and low voltage control**

DIMENSIONS

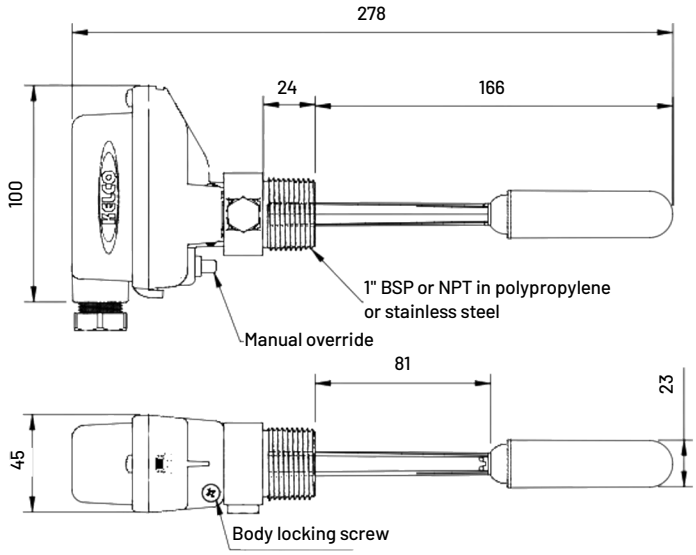


FIG. 1 Overall dimensions in millimetres

The switch requires a minimum of 25 mm of clearance above and below its centre line axis to facilitate the free movement of its float.

TYPICAL INSTALLATION

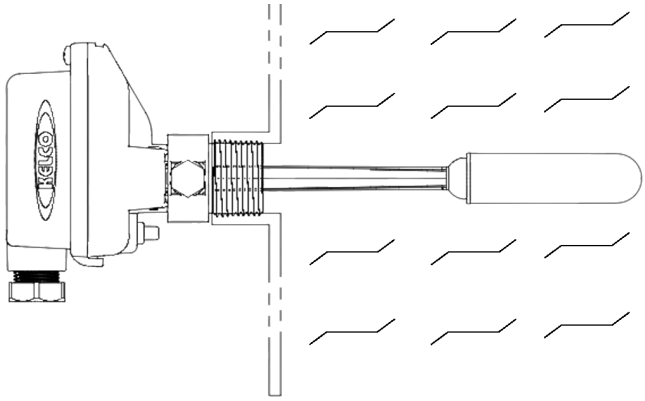


FIG. 2 L Series installed in a tank socket on the side wall of a tank

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