LM SERIES

HEAVY DUTY LEVEL SWITCHES

Side entry level switch in 316 stainless steel and billet aluminium

FEATURES

- 5–500 VAC 15 A S.P.D.T. switch ('H' model)
- Low voltage gold contact 'L' model available
- 316 stainless process connection
- Super tough billet aluminium housing
- Manual override built in
- 1" BSP and 1" NPT 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

100 m
Maximum float submergence

–60 °C
Minimum operating temperature

IP67
Weatherproof electrical housing

OUTLINE

The LM Series side entry level switch provides a reliable, accurate solution to tank level control. The switch is constructed from a combination of 316 stainless steel and CNC machined aluminium with a polypropylene float and arm.

The level switch is supplied with either a 5 to 500 V single pole double throw (S.P.D.T.) microswitch ('H' model) for general control circuit use, or a low voltage gold contact S.P.D.T. microswitch ('L' model) for PLC, telemetry and low voltage control. The LM 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 LM Series – for example **LM-H-25B**.

LM – **H** – **25B**

SERIES

LM Series level switch

SWITCH

H Standard heavy duty switch

L Low voltage gold contact switch

PROCESS CONNECTION SIZE

25B 1" BSP thread

25N 1" NPT thread

OPERATING LIMITATIONS

PARAMETER	STANDARD LM SERIES LEVEL SWITCH
Maximum submergence of the float	**100 metres** 328 feet
Minimum burst pressure of the polypropylene float at ambient temperature	**1800 kPa** 260 psi (183 m / 602 ft of head)
Minimum burst pressure of the switch body at ambient temperature	**800 bar** 11600 psi
Maximum operating temperature (process liquid)	**80 °C** 176 °F
Minimum operating temperature	**–60 °C** –76 °F
Minimum liquid S.G.	**0.95**
Ingress protection rating	**IP67**

SWITCHING POINT

The tip of the arm of the LM level switch is free to travel vertically 45 mm each side of the horizontal centre line of the switch. The switching point is in the middle of this travel and occurs 2 degrees each side of the horizontal centre line. The movement of the switch arm can therefore be confined to within 3 to 4 degrees each side of horizontal and the switch will operate properly.

HAZARDOUS AREAS

The LM-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 LM-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 'LM-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 'LM-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.

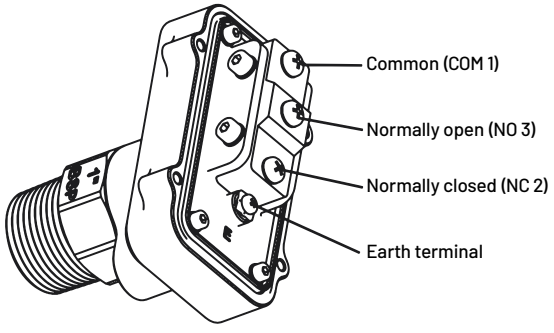


FIG. 1 Switch contacts on the LM-H and LM-L switches

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

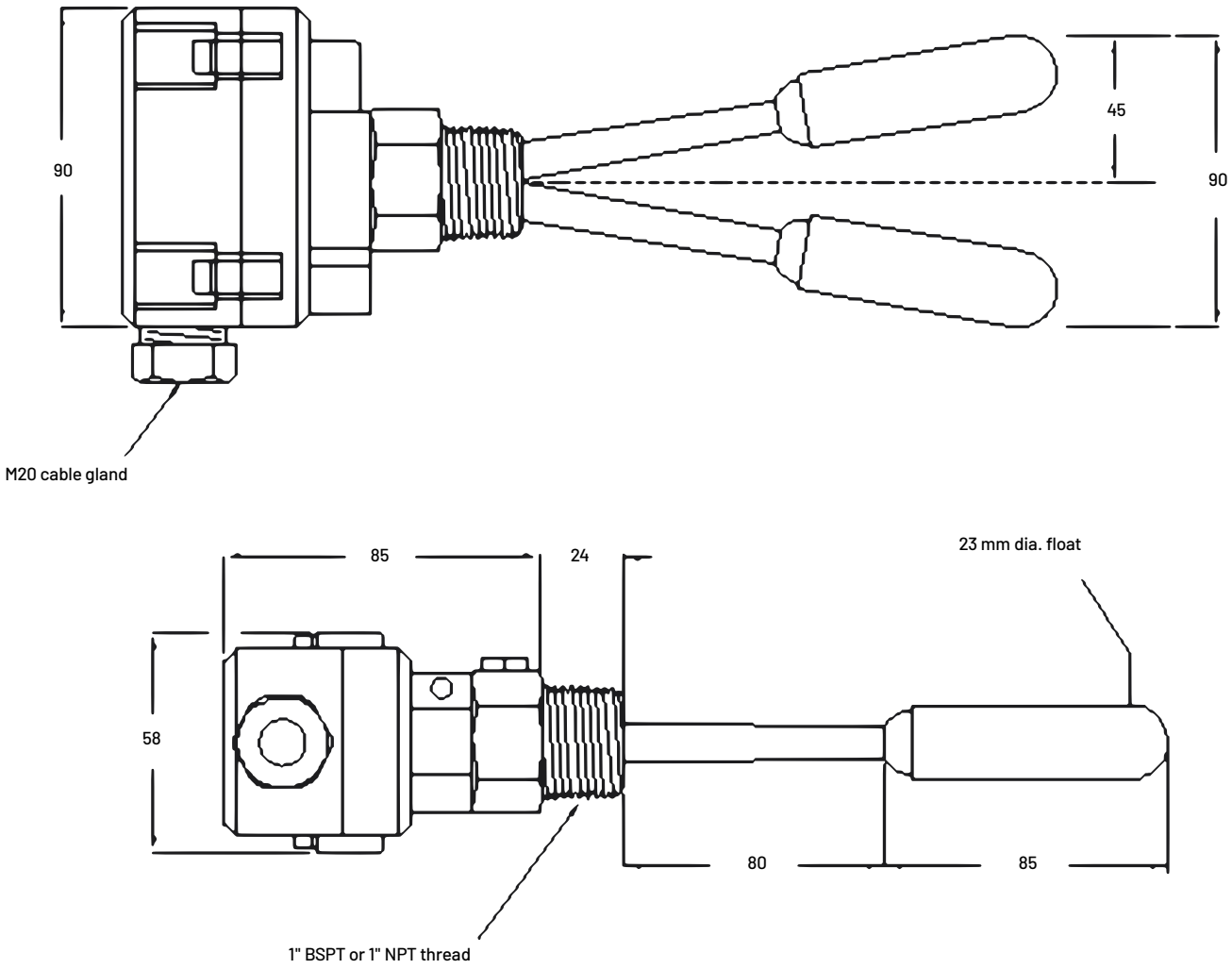


FIG. 2 Overall dimensions in millimetres

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