

INSTALLATION AND OPERATING INSTRUCTIONS FOR L26 SERIES HEAVY DUTY LEVEL SWITCH

**PLEASE READ THIS INSTALLATION SHEET CAREFULLY AND FULLY
BEFORE ATTEMPTING TO INSTALL OR SERVICE THIS LEVEL SWITCH**

APPLICATION

The L26 series level switch is a side entry single point level regulator that is intended to be mounted in a threaded socket fixed to the side of a tank. The switch will provide an ON or OFF signal when liquid reaches the level of the float. The standard model L26-S switch has a float arm that is of sufficient length to clear the inner walls of the majority of tanks. A short arm model, L26-SA, is also available and is suitable for use in riser pipes and tanks as small as 100mm inside diameter.

The switch is available with an all polypropylene body, in which there are no metal parts in contact with the process liquid being sensed. This version is suitable for applications involving super pure water, seawater and a variety of chemical solutions including acids and alkalis. The L26 level switch can also be supplied with a 316 stainless steel body and an polypropylene electrical housing. The high strength L26-SS stainless versions of the switch is suited to applications where there may be a danger of fire, or vandalism.

ENVIRONMENT

The L26 level switch has a weatherproof housing, made from polypropylene thermoplastic, and rated at IP67. The switch is suitable for use in all fully exposed outdoor applications. This switch may be used in liquids with temperatures from -20°C to 80°C .

This switch is not suitable for use in liquids that contain solids or precipitates which are likely to deposit out or jam in the arm housing of the switch. The standard L26 level switch can be used in pressurised tanks or vessels in which the pressure does not exceed 10 Bars (145 PSI). This pressure rating also applies to switches with stainless bodies, due to the pressure limitations of the float.

INSTALLATION

This switch is designed to be mounted in the horizontal plane in the side of a tank or liquid container. A 25mm (1 inch BSP) socket must be provided on the side of the tank at the precise level at which the switch operation is required.

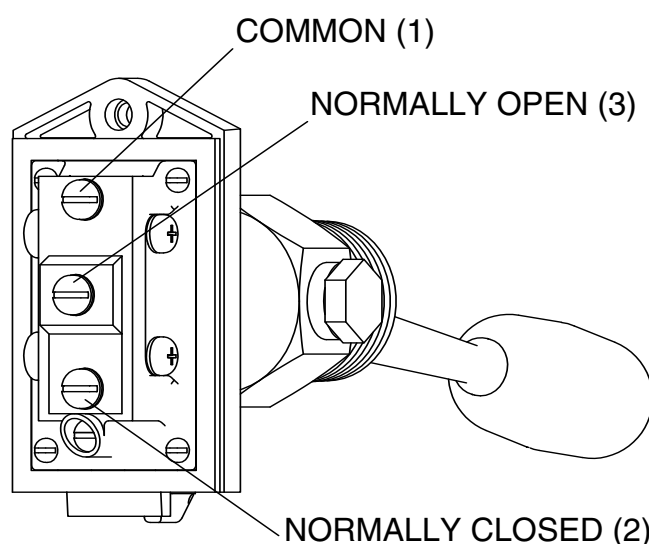
The socket must have a full bore clearance through the side of the tank equal in diameter to the root size of a 25mm (1 inch BSP) thread (minimum 28mm). This is to allow clearance for the switch arm and float, and to allow the switch to be extracted or fitted.

The level switch should be screwed into the socket using thread tape. Use a suitable spanner and the spanner flats provided to tighten the switch into the socket, do not twist the electrical housing of the switch, as damage to the switch may result. Correct orientation is important, align the cable gland vertically plumb and pointing downward. The switch will not operate correctly if this orientation is not closely adhered to.

ELECTRICAL

All electrical work associated with this level switch must conform to the relevant local codes and must be carried out by qualified persons only.

The long arm L26-S, L26-SS and the short arm L26-SA level switches are fitted with a 15 Amp 500 Volt single pole double throw (SPDT) microswitch. This switch is suitable for the majority of general control circuit applications.



ELECTRICAL DATA

The L26-S, L26-SS and L26-SA level switches house a 15Amp 500Volt single pole double throw microswitch suitable for most general control applications.

125 VAC	15A	3A	1.5A	15A	5A	2.5A
250 VAC	15A	2.5A	1.25A	15A	3A	1.5A
500 VAC	10A	1.5A	0.75A	6A	1.5A	0.75A
8 VDC	15A	3A	1.5A	15A	5A	2.5A
14 VDC	15A	3A	1.5A	10A	5A	2.5A
30 VDC	6A	3A	1.5A	5A	5A	2.5A
125 VDC	0.5A	0.5A	0.5A	0.05A	0.05A	0.05A
250 VDC	0.25A	0.25A	0.25A	0.03A	0.03A	0.03A

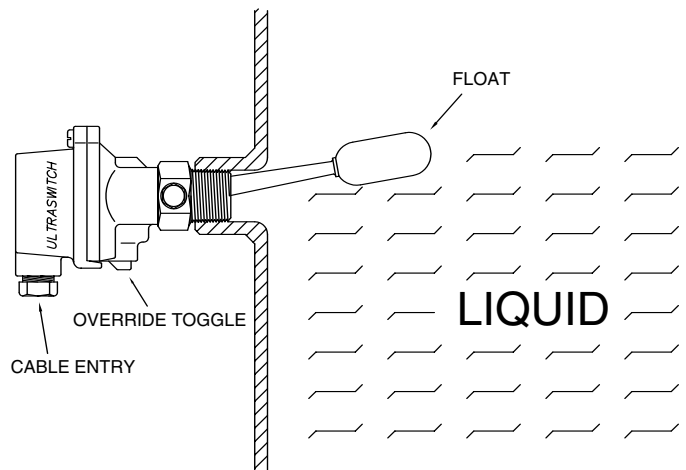
For testing and commissioning purposes all L26 level switches are fitted with a manual override switch, located on the underside of the electrical housing. The override has two positions, marked AUTO and ON.

In the auto position, the override has no effect on the switch, that is the switch's electrical state is entirely a function of the float's position.

With the override switch rotated to the ON position the state of the float is ignored and the switch is ON. This feature of the L26 level switch allows the switch to be overridden and can be used to prime pumps in tank filling applications. For example where the liquid level in a tank may be lower than the tanks draw off low level control switch would normally allow.

When operating the override switch, ensure it is fully in either the ON or AUTO position. The switch may not function correctly with the override partially rotated.

TYPICAL TANK APPLICATION WITH THE FLOAT SWITCH SCREWED INTO A 25MM (1 inch) B.S.P. SOCKET FIXED TO THE SIDE OF THE TANK.



MAINTENANCE

This level switch is a low maintenance device. If the L26 level switch is correctly installed and if the process fluid is compatible with the materials of construction of this switch, then a very long service life can be expected. Factors that may contribute to early failure of this device include excess temperature, excess pressure or electrical loads in excess of the switch's ratings. All of the components of this switch are available as spare parts.

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