



A 01 140
A 01 141

For vertical mounting

Nominal pressure	PN 16	max. 16 bar up to 300°C
Operating temperature	0 to 300°C	
Ambient temperature	0 to 70°C	
Density of liquid		
- pump control	0.45 kg/dm ³	
- alarm	0.30 kg/dm ³	
Operating differential S	A 01 140:	12 to 1340 mm
	A 01 141:	12 to 2840 mm
Wetside material	Stainless steel (CrNiMo)	
Flange material	Stainless steel (CrNiMo)	
Switch housing material	Sea water resistant die cast aluminium	
Flange dimensions	92 x 92 mm (PCD 92 mm)	
Counterflange	see page 33	
Switch element	Microswitch SPDT silver contacts	
Switch rating	5A/250 VAC 5A/30 VDC	
Enclosure	IP 65	
Weight	A 01 140	approx. 2.5 kg
	A 01 141	approx. 2.7 kg

Setting the switching differential

1. For pump control (two switch points)

The required differential is set by fixing the two stop collars in the appropriate positions on the rod. The counterweight is adjusted to compensate for the rod weight (without float), until the cross arm is balanced. The float slides up and down the rod with the liquid level and actuates the switch at the set position of the stop collars.

The switch remains latched between the two positions, which are for applications such as pump control where the contactor coil would need to remain energised throughout the pumping cycle.

2. For alarm duty (one switch point)

Only the lower collar is fixed on the rod (below the float). Within the limit of the rod length, the height of the alarm point can be chosen as required. The counterweight has to be set to outweigh the rod (without float). The alarm switching differential is 12 mm, fixed.

Installation

Over open tanks or sumps on a bracket. On closed tanks on the manhole cover with float mounted from the inside. In the absence of a manhole, i.e. the float cannot be mounted from the inside, an intermediate flange of at least DN 125/5" should be used. If turbulence occurs, the rod should be guided loosely at the lower end.

For counterweight setting, refer to data sheet LTDS02E.

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For vertical submersible mounting

Operating temperature	-30 to 80°C	
Ambient temperature	-30 to 80°C	
Enclosure	IP 68	
	switch housing is pressure proof up to 100 meters WG	
Length of cast-in cable	3 m	
Weight	U3A 01 140	approx. 3.2 kg
	U3A 01 141	approx. 3.4 kg

All other technical data as described above