

FLS-L Liquid Float Level Switches



Product Overview:

The FLS-L series of float-type switches, supplied by S&S Middle East, are specifically designed for multi-level applications. They are ideal for scenarios where access is limited to the top surface or when multiple level sensing is required through a single penetration.

Each unit includes a float suspended by a cable, which moves with the liquid's surface level. As the float tilts in response to level changes, the integrated micro switches inside the float are activated.

Technical Specifications

Switch Rating:	6A @ 6 - 250Vac
Standard Cable Length:	5m
Standard Switching Level Diff:	Min 10 in.
Maximum Standard Switching Level Diff:	Max 50 in.
Materials:	
Float	Polypropen
Standard Cable	PVC
Minimum Fluid Sp. Gravity:	0.7
Pressure Rating:	28 psi (2bar) Maximum
Ambient Liquid Temperature:	0 to +55°C
Country of Origin:	Finland
Conformity	LVD, CSA, CE & UKCA
Protecting Rating:	IP67, NEMA 6
Weight:	1.3 - 4lbs (varies on type)

Product Codes

FLS-L-1H	High level alarm or controlling magnetic valve (2x1,5)
FLS-L-2H	Discharging-pump control (2x1,5)
FLS-L-2Y	Discharging-pump control (3x1)
FLS-L-3H	Discharging-pump control + high level alarm (3x1)
FLS-L-3Y	Discharging-pump control + high level alarm (4x1)
FLS-L-3HE	Discharging-pump control + isolated high level alarm (4x1)
FLS-L-3YE	Discharging-pump control + isolated high level alarm (5x1)
FLS-L-4H	Discharging-pump control + high and low level alarms (4x1)
FLS-L-4Y	Discharging-pump control + high and low level alarms (5x1)
FLS-L-1L	Low level alarm or controlling magnetic valve (2x1,5)
FLS-L-2L	Charging-pump control (2x1,5)
FLS-L-2A	Charging-pump control (3x1)
FLS-L-3L	Charging-pump control + low level alarm (3x1)
FLS-L-3A	Charging-pump control + low level alarm (4x1)
FLS-L-3LE	Charging-pump control + isolated low level alarm (4x1)
FLS-L-3AE	Charging-pump control + isolated low level alarm (5x1)
FLS-L-4L	Charging-pump control + high and low level alarms (4x1)
FLS-L-4A	Charging-pump control + high and low level alarms (5x1)
FLS-L-1C	High or low level alarm, change-over switch (3x1)
FLS-L-2C	Charging or discharging-pump control (change over contact) (3x1)
FLS-L-2HL	High and low level alarms (3x1)

Installation Instructions

- 1) The FLS-L must only be installed by a qualified, trained technician with experience in handling installations involving hazardous voltages (>50Vac & <1000Vac or >75Vdc & <1500Vdc).
- 2) Always ensure that the power supply is fully disconnected before performing any work on the FLS-L.
- 3) The FLS-L-1L and FLS-L-1H models are supplied with a two-part mounting bracket for securing the cable to the side of the tank at the top edge. This bracket includes a plastic tube with a single-hole fixing bracket and a tubular plastic insert that locks the cable in place once the desired mounting position is determined. Hang the float so that its lower face is positioned 12.5 cm below the desired switching point. Note that no additional weight is required. Final adjustments may be necessary during actual pumping conditions.
- 4) The remaining FLS-L models are supplied with a weight. The switching height differential is adjusted by sliding the weight along the cable. The differential is minimized when the weight is positioned closest to the float.