FIS-1200 Series

Integral Electronics

High pressure liquid processes can now be monitored effectively with very little intrusion into tanks or piping. ELS-1200 switches feature fused glass prisms fused to zinc/nickel plated, carbon steel housings. You will find them to be a compact, reliable and durable solution to liquid level monitoring of refrigerant, compressor oil, hydraulic system reservoirs and machine tools.

Removable Electronics

These electro-optic switches feature a one piece removable electronics module with 1/2" NPT conduit connection and an internal 0-ring seal to protect against external moisture intrusion. Simply unthread the 1/2" NPT conduit connection for easy replacement of the electronics module without the inconvenience of emptying or depressurising tanks. ELS-1200 switches feature glass prisms fused to zinc/nickel plated, carbon steel housings. Select from either 1/2" NPT mounting connections, or 3/4"-16 UNJF-3A straight thread connections with an external 0-ring seal. They monitor high pressure liquid processes with very little intrusion into tanks or piping.



Specifications

Mounting	1/2" NPT or 3/4"-16 UNJF-3A Thread (Viton '0' ring) Zinc/Nickel Plated Carbon Steel Fused Glass		
Materials Housing Prism			
Operating Pressure	172 bar, Maximum*		
Operating Temperature*** 5/12 VDC 24/120 VAC	-40°C to +100°C -29°C to +116°C (Prism tip) -29° to 75°C (Electronics)		
Current Consumption 5/12 VDC 24/120 VAC	~45 mA ~6 mA		
Output 5/12 VDC	TL/CMOS compatible. Transistor output with 10K pull up Resistor may sink 18mA. 12 VDC Input power units switch a maximum 5 VDC on output		
24/120 VAC	Normally Open: SPST (10 VA Resistive) Max. Switching Volts: V in ±10% Max. Switching current: 225 mA @ rated voltage @ 25°C		
Electrical Termination** 5/12 VDC	22 AWG, Polymeric, 0.3m extended lead wires		
24/120 VAC	20 AWG, Polyester, 0.3m extended lead wires		
Repeatability	±1mm		

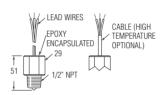
- * For straight thread mounting units when installed with tube fitting per MS 33649
- ** Consult GEMS for cable options
- *** These switches are not for use in freezing liquids. Consult factory for higher temperature units.
- Hastelloy thread with Stainless Steel body is available for harsh environments. Contact Sales Office for details

How To Order

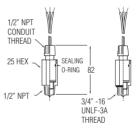
Input Power	Probe Condition at Current Sink	Electronics	Mounting Style	
			1/2" NPT	3/4"-16 UNJF
5 VDC	Wet Dry	Integral	153842 154177	
	Wet Dry	Removable	171574 160953	161431 161432
12 VDC	Wet Dry	Integral	153843 154178	
	Wet Dry	Removable	160646 160954	161433 161434
24 VAC	Wet Dry	Removable	166852 166854	168174 168422
120 VAC	Wet Dry	Removable	164219 164222	166848 166850

Dimensions

ELS-1200 Integral Electronics

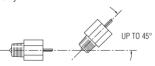


ELS-1200 Removable Electronics



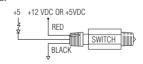
Mounting Attitude

These units must be mounted horizontally or up to 45° from horizontal only.

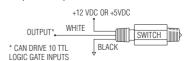


Wiring Diagrams

Transistor Output



TTL Compatible Output



SPST, 24 or 120 VAC Output

