ELS-1200RE Enables Switch Replacement without Downtime!

These Electro-Optic switches feature a one piece removable electronics module with 1/2" NPT conduit connection and an internal O-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 depressurizing tanks. ELS-1200RE 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 O-ring seal. They monitor high pressure liquid processes with very little intrusion into tanks or piping.

Specifications

Mounting	1/2" NPT, 3/4"-16 UNJF-3A Thread		
Materials Housing	Zinc/Nickel-Plated Carbon Steel		
Prism	Fused Glass		
Operating Pressure	0 to 2500 PSI, Maximum*		
Operating Temperature 12 VDC	-40°F to +212°F (-40°C to +100°C)		
24/120 VAC Prism Tip	-20°F to +240°F (-29°C to +116°C)		
Electronics	-20°F to +162°F (-29°C to +72°C)		
Current Consumption 12 VDC	~45 mA		
24/120 VAC	~6 mA		
Output 12 VDC	TTL/CMOS Compatible. Transistor Output with 10K Pull Up Resistor May Sink 18 mA.		
24/120 VAC	Switch Rating 225 mA @ Rated Voltage @ 77°F (25°C); 60 mA @ Rated Voltage @ 161°F (72°C)		
Electrical Termination** 12 VDC	22 AWG, Polymeric, 12" to 14" Extended Lead Wires		
24/120 VAC	20 AWG, Polyester, 12" to 14" Extended Lead Wires		
Repeatability	±1 mm		
Approvals	U.L. Approved – File No. E180359		

^{*}For straight thread mounting units when installed with tube fitting per MS 33649.

How To Order

Specify Part Number based on desired Input Power, Output Condition, and Mounting Type.

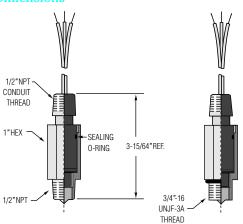
	Probe Condition at Current Sink	Mounting Type		
Input Power		1/2" NPT Thread	3/4"-16UNJF Thread	
12 VDC*	Wet	160646	161433	
	Dry	160954	_	
24 VAC	Wet	166852	-	
	Dry	166854	168422	
120 VAC -	Wet	164219 🗲	_	
	Dry	164222 🗲	_	

^{*12} VDC input power units switch a maximum 5 VDC on output.

Notes

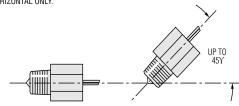


Dimensions



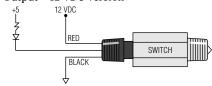
Mounting Attitude

THESE UNITS MUST BE MOUNTED HORIZONTALLY OR UP TO 45° FROM

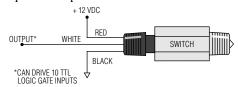


Wiring Diagrams

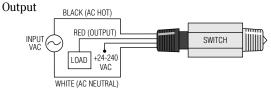
Transistor Output - 12 VDC Version



TTL Compatible Output - 12 VDC Version



SPST, 24 or 120 VAC Version



^{**}Consult GEMS for cable options.

^{1. 24} VDC available on request.

^{2.} Delay option available on VAC versions. Please contact Gems factory.

Stock Items.