

Specifications

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

* 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.
(1) 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 | $\begin{aligned} & 153842 \\ & 154177 \end{aligned}$ |  |
|  | $\begin{aligned} & \hline \text { Wet } \\ & \text { Dry } \end{aligned}$ | Removable | $\begin{aligned} & 171574 \\ & 160953 \end{aligned}$ | $\begin{aligned} & 161431 \\ & 161432 \end{aligned}$ |
| 12 VDC | $\begin{aligned} & \text { Wet } \\ & \text { Dry } \\ & \hline \end{aligned}$ | Integral | $\begin{aligned} & 153843 \\ & 154178 \end{aligned}$ | --- |
|  | $\begin{aligned} & \hline \text { Wet } \\ & \text { Dry } \\ & \hline \end{aligned}$ | Removable | $\begin{aligned} & \hline 160646 \\ & 160954 \\ & \hline \end{aligned}$ | $\begin{aligned} & 161433 \\ & 161434 \\ & \hline \end{aligned}$ |
| 24 VAC | $\begin{aligned} & \text { Wet } \\ & \text { Dry } \end{aligned}$ | Removable | $\begin{aligned} & 166852 \\ & 166854 \end{aligned}$ | $\begin{aligned} & 168174 \\ & 168422 \end{aligned}$ |
| 120 VAC | Wet Dry | Removable | $\begin{aligned} & 164219 \\ & 164222 \end{aligned}$ | $\begin{aligned} & 166848 \\ & 166850 \end{aligned}$ |

(Wet = NO, Dry = NC)


## Dimensions

ELS-1200 Integral Electronics


ELS-1200 Removable Electronics


## Mounting Attitude

These units must be mounted horizontally or up to $45^{\circ}$ from horizontal only.


## Wiring Diagrams

Transistor Output


TTL Compatible Output


## SPST, 24 or 120 VAC Output



