

# ELS-1100HT

## Handles Temperatures to 212°F

Slightly larger than the ELS-1100, the “HT” or High Temperature version is made from high performance Isoplast® plastic. While maintaining broad chemical compatibility, these units also handle fluid temperatures to 212°F. They feature 3/8-18 NPT mountings and the shortest of any of our plastic electro-optic switch bodies – HTS versions are a mere 1/2” long!

### Typical Applications

- Coolant reservoir monitoring
- Medical diagnostic and sterilizer equipment
- Low lubricant warning on machine tools
- Low level warning in hydraulic reservoirs

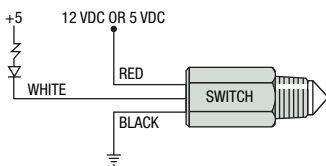
### Specifications

<b>Materials</b>	
<b>Housing and Prism</b>	Isoplast®
<b>Max. Operating Pressure</b>	0 to 150 psi (0 to 10.3 bar)
<b>Operating Temperature*</b>	-40°F to +212°F (-40°C +100°C)
<b>Current Consumption</b>	45 mA, Approximately
<b>Output</b>	TTL/CMOS Compatible. Transistor Output with 10K Pull Up Resistor May Sink 18 mA. 12 VDC input power units switch a maximum 5 VDC on output
<b>Repeatability</b>	±1 mm

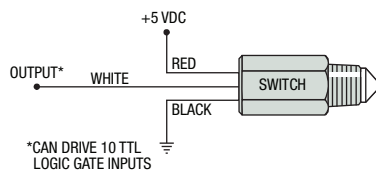
\* These switches are not for use in freezing liquids or steam/high condensation environments. Contact Gems for alternative solutions.

### Wiring Diagrams

**Transistor Output**



**TTL Compatible Output**



### How To Order

#### HT Series

Specify Part Number based on Input and Output Condition required.

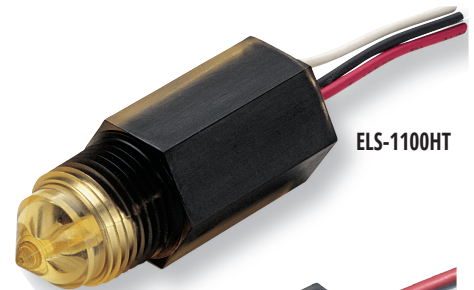
Input Power	Probe Condition at Current Sink	
	Wet	Dry
5 VDC	<b>153061</b>	<b>153062</b>
12 VDC*	<b>153063</b>	<b>153064</b>

\* 12 VDC input power units switch a maximum 5 VDC on output.  
Note: Extend the power and switching capabilities of 10–28 VDC models with Gems Opto-Pak Controllers.

#### HTS Series - 5 VDC Input Only

Specify Part Number based on Wet or Dry switch actuation and mounting type.

Mounting Type	Probe Condition at Current Sink	
	Wet	Dry
3/8-18 NPT	<b>181674</b>	<b>181675</b>
M16 × 2	<b>191341</b>	<b>191342</b>



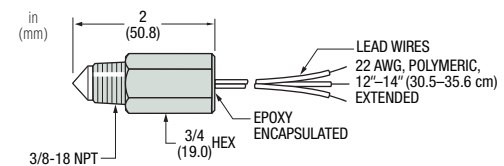
ELS-1100HT



ELS-1100HTS

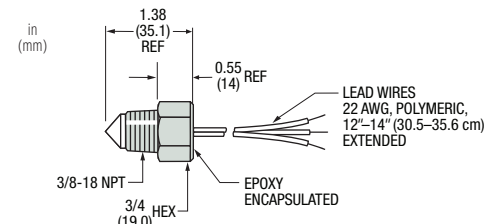
### Dimensions

#### HT Series

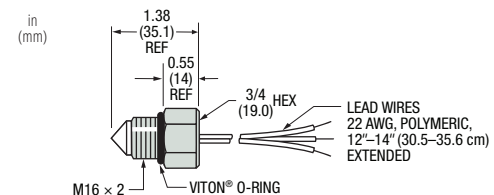


#### HTS Series

##### 3/8-18 NPT Mounting



##### M16 × 2 Straight Thread Mounting with O-Ring



### Extended Power and Switching Capabilities of 12 VDC Models with Gems.

Converts TTL output signal to 5 Amp relay output. Available as open circuit board or mounted in a NEMA 4X enclosure (pictured). See Page A-28.

