

# 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" 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

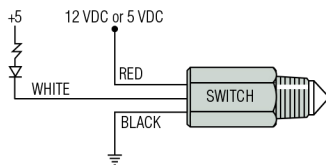
### Specifications

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

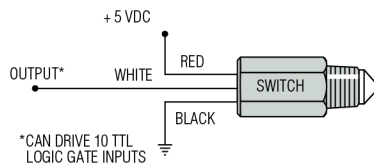
\* These switches are not for use in freezing liquids or steam/high condensation environments. Contact Gems for alternative solutions.

### Wiring Diagrams

#### Transistor Output



#### TTL Compatible Output



### How To Order

#### HT Series

Specify Part Number based on Input and Output Condition required.

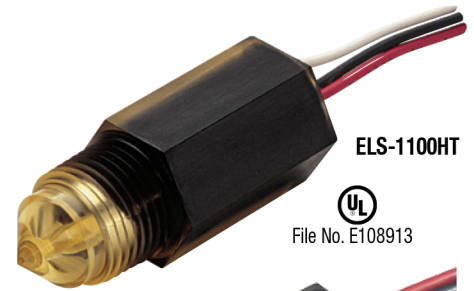
| Input Power | Probe Condition at Current Sink |        |
|-------------|---------------------------------|--------|
|             | Wet                             | Dry    |
| 5 VDC       | 153061                          | 153062 |
| 12 VDC*     | 153063                          | 153064 |

\*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" NPT      | 181674                          | 181675 |
| M16x2         | 191341                          | 191342 |



ELS-1100HT



File No. E108913



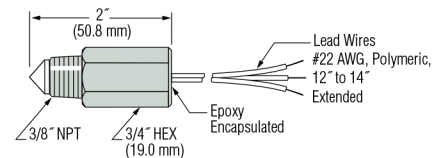
ELS-1100HTS



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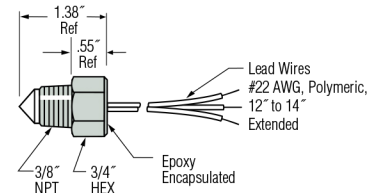
### Dimensions

#### HT Series

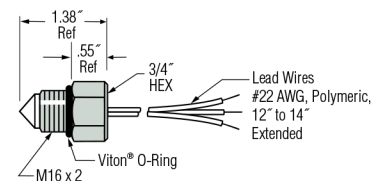


#### HTS Series

##### 3/8" NPT Mounting



##### M16 x 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-33.

