

# 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

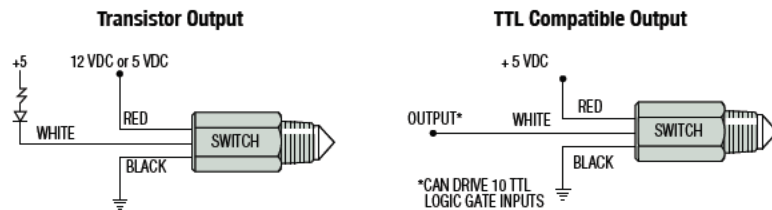
- Coolant reservoir monitoring
- Medical diagnostic and sterilizer equipment
- Low lubricant warning on machine tools
- Low level warning in hydraulic reservoirs

### 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. Transistor Output with 10K Pull Up Resistor May Sink 18 mA. 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



### How To Order

#### HT Series

Specify Part Number based on Input and Output Condition required.

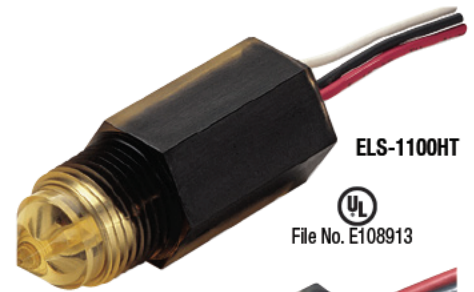
Input Power	Probe Condition at Current Sink	
	Wet	Dry
5 VDC	153061	153062
12 VDC*	153063	153064

\*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



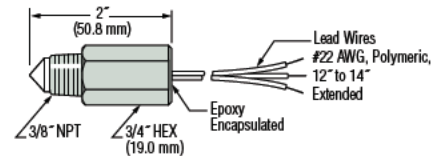
ELS-1100HT  
UL  
File No. E108913



ELS-1100HTS  
UL  
File No. E108913

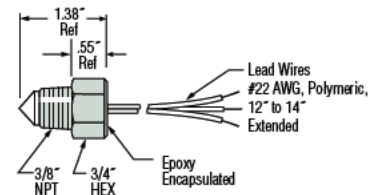
### Dimensions

#### HT Series

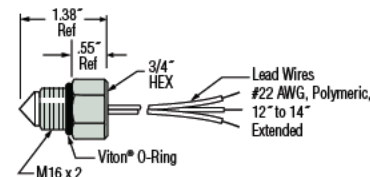


#### HTS Series

##### 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.

