

Electro-Optic Level Switch ELS-1100 HT Series

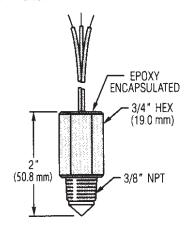
Instruction Bulletin No. 152854



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Dimensional Data . . .

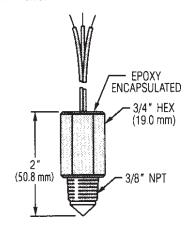


Specifications . . .

Materials	
Housing and Prism	Isoplast [®]
Operating Pressure	0 to 150 PSI, Maximum
Operating Temperature*	-40°F to +212°F (-40°C to +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
Electrical Termination	Lead Wires, 22 AWG, Polymeric, 12" to 14"
	Extended
Approvals	C.E. EN61326
	Units Labeled 🕦 U.L. File E108913

^{*}These switches are not for use in freezing liquids.

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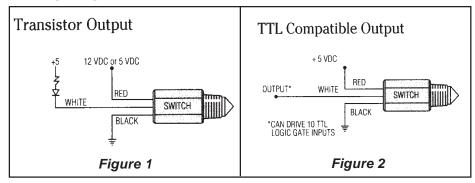
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Installation . . .

- Use Teflon (TFE) thread tape or Permatex #80725 plastic pipe sealant to seal thread. <u>Caution: Pipe sealant must not come in contact</u> with prism surface.
- 2. Thread sensor into tank wall and tighten by hand. Further tighten an additional one to two threads past hand-tightness. (Avoid overtightening, as this may damage threads.
- 3. Sensor may be installed in **horizontal** or **vertical** positions, only.
- 4. Do not install sensor close to infrared sources.
- 5. Prism surface must be at least 2" from any reflective surfaces.
- Connect appropriate voltage supply to red lead. For 12 VDC units (Part Numbers 153063 and 153064), connect to 12 VDC ±5% - For 5 VDC units (Part Numbers 153061 and 153062), connect to 5 VDC ±5%.
- 7. Output Configuration: See Fig. 1 and Fig. 2.

Wiring Diagrams . . .



Maintenance . . .

Sensor may require a periodic cleaning of prism surface. **Chlorinated hydrocarbons** *must not be used* **for cleaning**. A mild detergent may be used to clean prism surface.



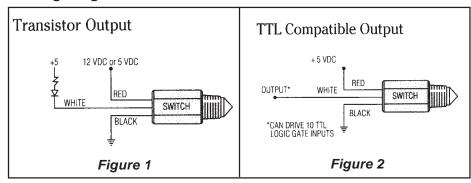
Gems Sensors Inc. One Cowles Road Plainville, CT 06062.1198

tel 860.747.3000 fax 860.747.4244

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