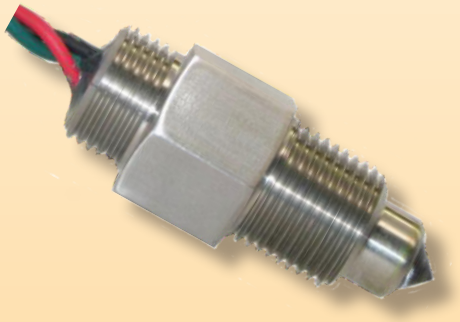
Optical Level Sensor

for Liquids

KOBOLD

measuring • monitoring • analyzing

TED



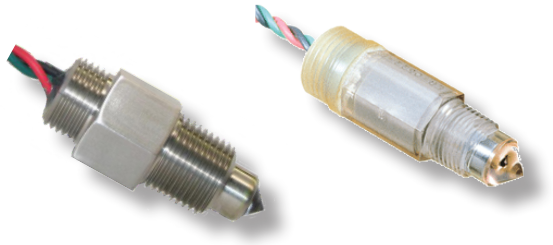
- Polysulfone, Stainless Steel, or PFA Body
- Compatible with Most Liquids
- Resistant to Lens Coating
- No Moving Parts
- No Adjustment or Calibration Needed
- Economical

Contact:
Industrial Process Measurement, Inc.
3910 Park Avenue, Unit 7
Edison, NJ 08820
732-632-6400
support@instrumentation2000.com
http://www.instrumentation2000.com

01/02-2014

Description

The KOBOLD TED series electro-optic level switch operates independent of liquid properties, such as: color, viscosity, dielectric constant, density, conductivity, contamination and temperature. It is compact, self-contained, and is an all solid state design. Reliability and operational consistency is ensured by use of a design that contains no moving or wearing parts. Installation is simple: thread the body into a container, reservoir or pipe. The body is available in polysulfone, stainless steel, or PFA and can accommodate a variety of containers and chemicals. For applications requiring dry contacts or a greater electrical switching capacity, consider pairing the TED with the KOBOLD RL-5901 or RL-5902 power supply/relay module.

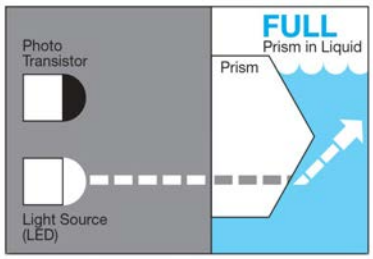


Specifications

Switch Output:	NPN Open-Collector, N/O Dry 300 mA Max. Load
Supply Voltage:	5-35 VDC, 12 VDC (Model TED-3212)
Supply Current:	33 mA (Excluding Load)
Wire Leads:	18 inches
Wetted Parts	
Polysulfone:	Polysulfone
Stainless Steel:	303 Stainless Steel, FKM Borosilicate Glass
PFA:	PFA
Maximum Pressure	
Polysulfone:	200 PSIG
Stainless Steel:	400 PSIG
PFA:	200 PSIG
Process Connection	
Polysulfone:	3/8" NPT
Stainless Steel:	1/2" NPT
PFA:	3/8" NPT
Conduit:	1/2" NPSH (SS and PSU Only)
Operating Temperature:	-40...230 °F
Storage Temperature:	-67...257 °F

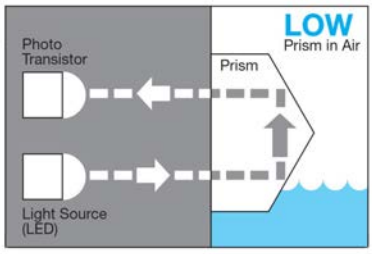
Operating Principle

Sensor Wet (N/O)



When the prism is immersed in liquid, light from the infrared LED is refracted into the liquid and fails to activate the internal photo transistor. The electronic switch then closes the circuit.

Sensor Dry (N/O)



When the liquid level falls below the prism, light from the infrared LED is reflected back into the prism and onto the photo transistor. The electronic switch then opens the circuit.

Order Details (Example: **TED-3611**)

Material	Supply Voltage	Function	Model
Polysulfone	5-35 VDC	N/O	**TED-2511F**
303 Stainless Steel	12 VDC	N/O	**TED-3212***
303 Stainless Steel	5-35 VDC	N/O	**TED-3212A**
PFA	5-35 VDC	N/O	**TED-3611**

*Available in Limited Quantities.