

# Photoelectric Level Sensor

## TK Series

### Applications

- » Senses single or multiple levels in a bath, tank, or drum (e.g. high, low, high-high, low-low)
- » Monitors operations of fluid handling or process equipment



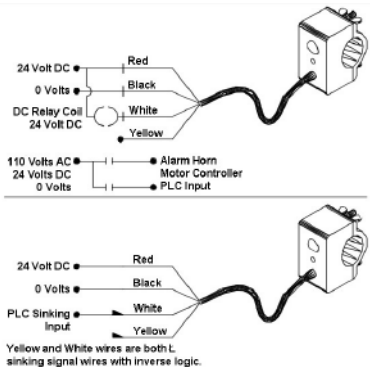
### Features

- Non-intrusive sensing technology
- Separate output for detecting presence/absence of fluids or bubbles through transparent/translucent tubing
- Red/green LED on sensor to indicate state of operation
- Enhanced safety via visual (LED) indication of liquid in line
- Long service life; High vibration resistance
- Two inverse logic, 24 Volt DC sinking signal connections for control of a relay, coil, or input to a PLC or microprocessor
- UL recognized; CE marked

### Operating principle

The TK Series is mounted to translucent tubing with the appropriate bracket and then adjusted to the desired liquid level. Sensitivity is set via a one-turn potentiometer.

Fluid levels or bubbles are sensed by refracting light through the liquid in the tubing. The state of operation is signaled by a red/green LED indicator on the base of the sensor. When liquid is detected, the indicating LED changes from green to red.



Specifications	TK010N2	TK010N2-S1	TK015N2	TK015N2-S1
Output	NPN	NPN	PNP	PNP
Cable length	6.6 feet	9.9 feet	6.6 feet	9.9 feet
For tubing sizes	1/4" to 1"	1/2" to 1"	1/4" to 1"	1/2" to 1"
Receiving element	Photodiode			
Supply voltage	24 Volt DC ± 10%			
Current	45mA maximum			
Temperature range	-10°C to 60°C			
Case material	Polycarbonate, potted with silicon			
Bolt material	Teflon™ coated			
Wiring nut material	Polycarbonate			
Cable material	PVC			
Dimensions	1.1"H x 1.97"W x 1.0"D (case)			



CELERITY, INC.  
 22600 Savi Ranch Parkway  
 Yorba Linda, California 92887  
 Telephone 714.921.2640  
 Facsimile 714.921.0804  
 www.celerity.net

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