



SL-630 SERIES

SPECIFICATIONS

- ✦ High/low liquid level monitor
- ✦ “Peel and stick” to the outside of a wide range of plastic containers
- ✦ Never comes in contact with liquid – no risk of contamination or volume displacement
- ✦ Proven ultrasonic technology
- ✦ Repeatability: ± 0.1 ” (2.54 mm)

The Non-Invasive Sonic Eye™ SL-630 is a cost effective ultrasonic sensor for plastic containers. The sensor is designed to adhere to the outside of plastic containers with diameters from 2” (50.8mm) to 10” (254mm) with a wall thickness up to 0.25” (6.35mm) as a high/low level liquid level monitor. The sensor sticks to the outside of the container, never coming in contact with the liquid, so there is no contamination or volume displacement.

FEATURES

- ✦ No calibration required
- ✦ Non-invasive miniature sensor designed to stick to outside of container
- ✦ Integral electronics with disposable mounting
- ✦ Effective on plastic bottles with diameters ranging from 2” (50.8 mm) to 10” (254 mm)
- ✦ Independent of color, transparency, shape and size of bottom of container
- ✦ No displacement of liquid volume
- ✦ Eliminates fluid contamination problem

APPLICATIONS

- ✦ Chemical Analyzer
- ✦ Immuno Chemistry
- ✦ Chromatography
- ✦ Kidney Dialysis
- ✦ Clinical Chemistry
- ✦ Medical Laser System
- ✦ Hemodialysis
- ✦ Semiconductor
- ✦ Waste Management

PERFORMANCE SPECIFICATIONS

Parameter	Typical Value	Parameter	Typical Value
Repeatability	± 0.1" (2.54 mm)	Protection	Transient, reverse polarity
Response Time	200 milliseconds	Effective Plastic Bottle Diameter	2" (50.8 mm) to 10" (254 mm)
Input Power	5 to 24 VDC	Wall Thickness	Up to 0.25" (6.35 mm)
Leakage Current	Less than 50 µA	Sensor Material	ULTEM® (plastic)
Output	TTL (high) – dry condition	Temperature	-20 to 158 °F (30 to 70 °C)
Mounting	Reusable sensor/disposable mounting tape	Cable Length	12" (305 mm) (for longer lengths consult factory)

MECHANICAL DIMENSIONS IN INCHES

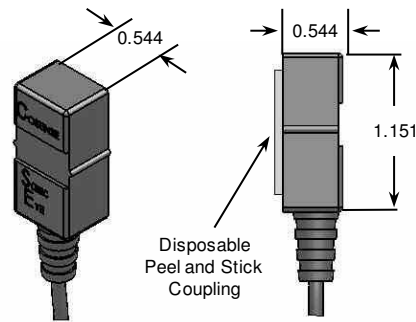


Figure 1: SL-630 series element with peel and stick disposable mounting tape.

NOTES: Clean area on container before installing. Remove backing from tape and adhere to container. Press sensor to container firmly

WIRING DIAGRAM

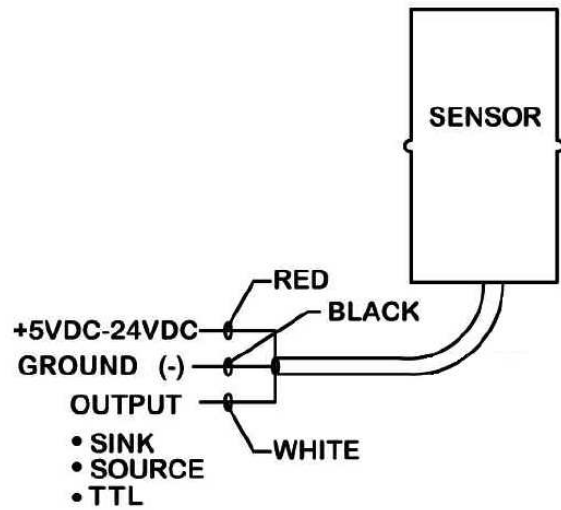


Figure 3: Wiring diagram for SL-630 series elements.

ORDERING INFORMATION

Input	Output	Part Number
5 – 24 VDC	TTL	SL-630-C01

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