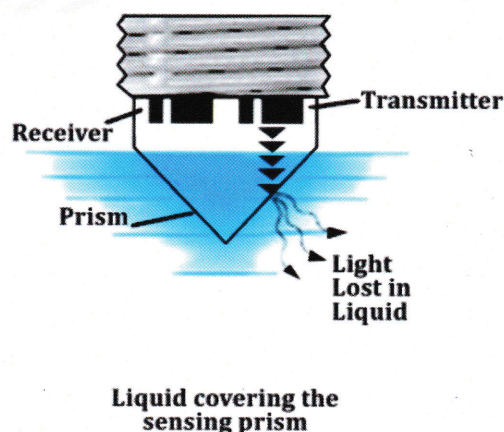
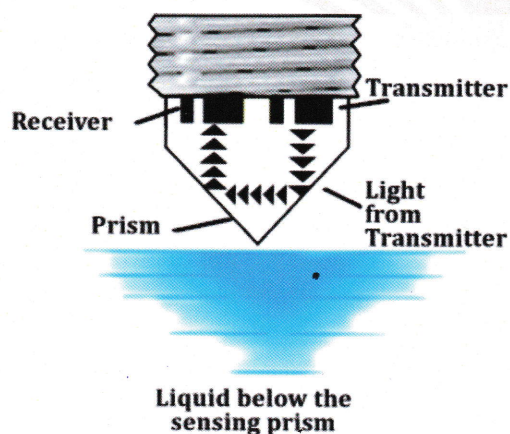


NO-CAL COMPACT OPTICAL POINT LEVEL SWITCH FOR LIQUIDS

PRISMATIC Series instruments are suitable for the detection of liquid level in small vessels where space is limited. Level detection is unaffected by electrical and physical parameters of the media such as conductivity, dielectric constant, density, viscosity, air bubbles, color and refractive index. It is very compact and fits in constrained spaces. It is unaffected by vapours and can be easily removed, cleaned and re-installed. It has no moving parts and can be used for the detection of level in chemical and Pharmaceutical industries, food processing, beverages, breweries, hydraulic fluids, oils, water and aqueous media.

Operating principle

An infrared emitter sends pulsed light into the prism. When the prism is not covered by the media, the light undergoes a total internal reflection and the returning beam is detected by the Photo Detector. When the Prism gets covered by the media the light is dispersed and only a weak beam returns to the Photo Detector. The change in the received intensity is processed by the electronics to signal an Alarm.



SALIENT FEATURES

- Compact design, no moving parts.
- No calibration required
- Selectable Fail-Safe mode for High or Low level Alarm
- Built in level status, Alarm and Normal indicators.
- Pulsed light operation for high ambient light immunity
- Open Collector PNP Transistor output for connecting to PLC or external relay
- Variety of models available to cater to different applications

TECHNICAL SPECIFICATIONS

Housing	: Stainless Steel SS316
Process connection	: ½" BSP / NPT, other on request
Light Guide	: Polycarbonate / Polysulfone
Minimum distance from Prism apex to opp. surface	: >= 10mm
Input Supply	: 15 to 30 V DC
Max circuit current	: <15 ma, reverse polarity protected
Ambient temperature	: -20 to 60 °C
Medium temperature	: -20 to 80 °C
Response time	: Preset to < 1 S
Measuring Accuracy	: + - 0.5 mm
Fail safe	: High / Low selectable
Output type	: PNP open collector standard
Output Active	: Max 100 mA momentary short circuit protected
Indication	: LEDs, Yellow for status, Blue for Normal and Red for Alarm
Ingress Protection	: IP68

NB: Specifications liable to change without notice in lieu of product improvement or up gradation



Sneha Process Control Instruments

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