

Level Tip Optical Type Fiber Teflon Tip



- Liquid level detection
- Recommended light source red 660 nm ± 50
- High chemical resistance to most acids and bases
- Housing Teflon "PFA" 1/4" NPT external threads on tip
- Fiber 2 x 2,2 mm with 2 x 1 mm core, fiber length max. 5 m
- Fiber: Bending radius max. 50 mm
Plastic fiber with polyethylene-sheath
Temperature range -20° - +60° C

Product Description

Optical level tip for red light to detect liquids. The teflon tip is designed so additional protection of the fibers is possible.

Ordering Key

1049-X

Type _____
Fiber length _____

Type Selection

Housing material

Teflon "PFA"

Ordering no.

1049-X

Specifications

Sensing accuracy

Liquid level difference

Horizontal mounting: ± 5 mm
Vertical mounting: ± 2.5 mm

Material

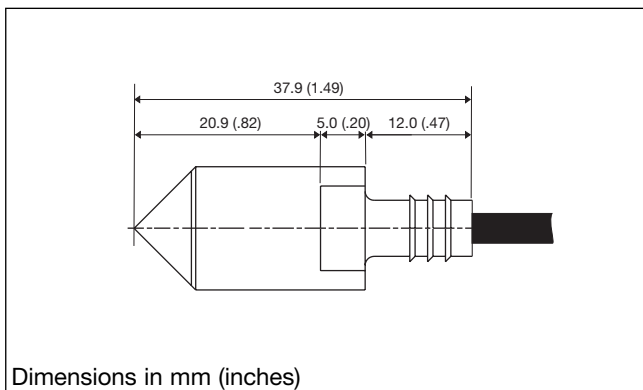
Housing

Teflon PFA

Pipe thread

1/4" NPT
3/8" NPT available

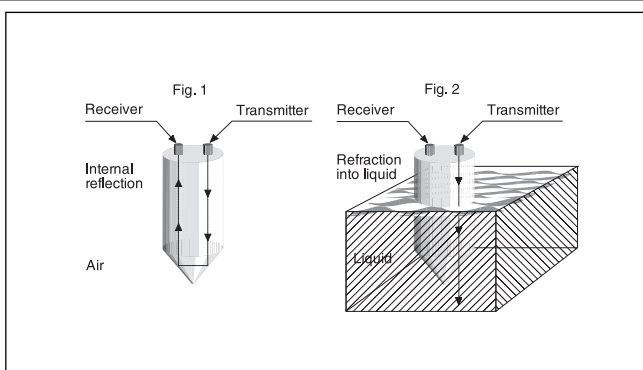
Dimensions



Mode of Operation

The conical tip of the sensor forms an angle of 90°. This angle acts as a prism, i.e. the beam, emitted from an external amplifier (has to be red light emitter diode placed in one side of the sensor head, is reflected internally to the phototransistor placed in the other side of the sensor head, provided that the tip of the sensor is situated in free air. If the sensor tip is immersed in a liquid, always having a

refractive index different from air, the beam will not be refracted by the prism and the photo transistor will not receive any signal.



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