

Optical Level Sensor

LOS



SALIENT FEATURES

- ◆ IP68 Housing
- ◆ Acrylic Unibody
- ◆ NPN/ PNP Models
- ◆ Non- contact Sensing

Model Number Legend

LOS - □ - □
 1 2 3

1. Series

LOS

2. Output Type

NO: NPN - NO

PO: PNP - NO

Example:

LOS-NO-3M

LOS Series - NPN NO output - 3 meter Cable

NOTE: Contact us for models not shown in catalogue.

5. Connection

3M: 3m Cable

M12J1: M12 Junction Connector with 0.1m extension

#. Accessories included

Check Nut: 1 No.

Mounting & Operation

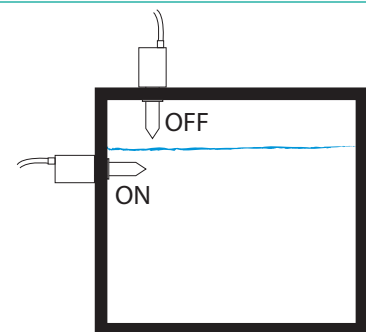
The LOS is an Optical level sensor, it uses infrared refraction to detect the presence of material.

The sensor gives an output when the medium around the sensor head changes.

A built in sensitivity adjuster is provided for changing the sensitivity according to the sensing medium.

M16 threaded mounting arrangement is provided with a check nut. Horizontal or Inverted vertical mounting is allowed for proper functioning of the sensor unit.

It is to be noted that output stays on if the material sticks to the sensor head.



Overhead Tank/ Sump

Ratings and Specifications

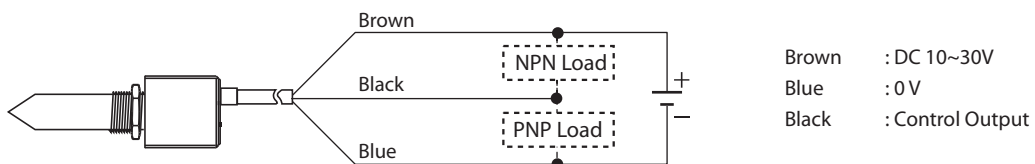
Models	LOS-NO-3M	LOS-PO-3M	LOS-NO-M12J1	LOS-PO-M12J1
Sensor Type	Infrared Refraction Type			
Response Time	1 ms			
Sensitivity Adjustment	Built-in externally adjustable pot.			
Supply Voltage	10 - 30 VDC (Ripple included 10%)			
Current Consumption	max. 300mA			
Protection Circuits	Reverse Polarity, Short- circuit, Over load Protection			
Control Output	NO - NPN or PNP open collector output (depending on model)			
Control Output Rating	Load Voltage: max. 30 VDC; Load Current: max 200mA			
Operation Indication	RED Led			
Shock Resistance	50 G- X,Y, Z three directions			
Environmental Illuminance	Sunlight: 10,000 lux, Lamp: 3,000 lux			
Ambient Temperature	Operation: -10° ~ 65°C; Storage: -20° ~ 70°C (non- freezing; non- condensing)			
Ambient Humidity	Operation: 35 ~ 85% RH; Storage: 35 ~ 90% RH (non- condensing)			
Protection Class	Sensor Head: IP69K; Sensor: IP64			
Weight	aprox. 200g		aprox. 75g	
Material	Sensor Head: Clear Acrylic; End Cap, Check Nut: PMMA or Eqv.			

Note:

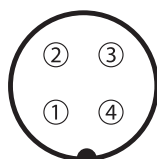
The sensor works on optical refraction which changes if the medium around the sensor head changes. The sensor hence will remain in the ON state if any material sticks to the head.

Connections

◆ Cable Type



◆ Junction Connector Type

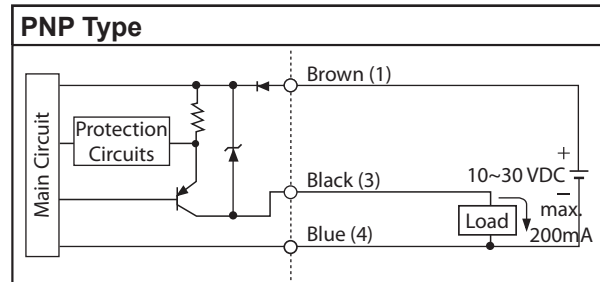
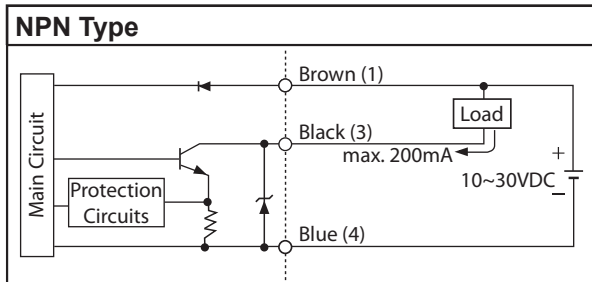


- 1 : DC 10~30V
- 2 : No Connection
- 3 : 0V
- 4 : Control Output

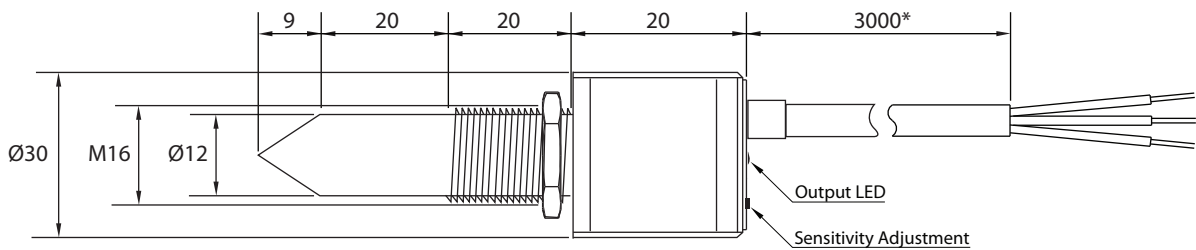
Note: Connector Cable is not supplied along with unit

Control Output Diagram

LOS



Sensor Dimension Drawing



* - 100mm cable in Junction Connector Type

All dimensions are in mm

Cat. No. LOS-C12

Exclusively Represented by:

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