



LOS-C12

LOS

OPTICAL LEVEL SENSOR



INSTRUCTION SHEET

Thank you for selecting INNO for your requirement.

This sheet describes the procedure and precautions required for installing and operating the product.

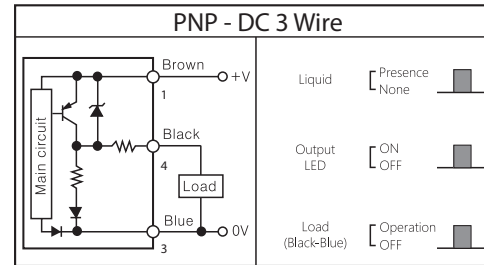
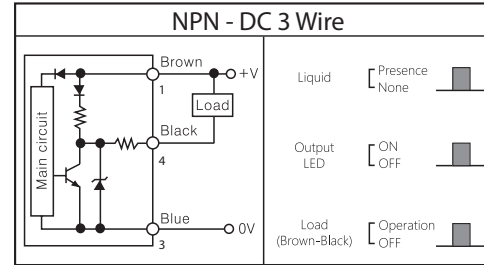
Kindly read this sheet before operating or installing the product. Store the sheet for future reference.

SPECIFICATIONS

*For details on Customized/ Special Models contact Seller

*Models	NPN	LOS-NO-3M	LOS-NO-M12J1
	PNP	LOS-PO-3M	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/ PNP open collector output		
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. 50g (without cable)		
Material	Sensor: Acrylic; End Cap: PMMA		

CONTROL OUTPUT DIAGRAM



Note:
1,3 & 4 are the pin nos. for the M12 Junction Connector type models.

CAUTION FOR SAFETY

- ① Please keep this sheet for review before use of unit.
- ① Please observe the following:

WARNING
Serious injury may occur if instructions are not followed

CAUTION
Product failure or injury can occur if instructions are not followed

WARNING

- This is not a safety product and is not to be used with machinery that requires use of safety control.
- Do not disassemble or modify this unit. It may lead to electric shock/ fire.

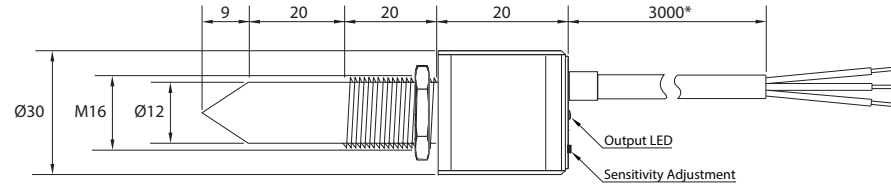
Do not connect sensor to AC power supply.
RISK OF EXPLOSION!



CAUTION

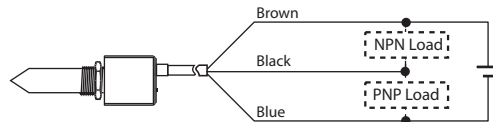
- This unit shall not be used outdoors.
- Do not use this unit in places where there is flammable or explosive gas.
- Do not use in high humidity areas.
- Please observe the rated specifications in Instruction Sheet.
- Do not use this unit beyond rated power and do not supply AC power at DC power type.
- Please check the polarity of power and wrong wiring.
- Do not use this unit in places where there is vibration or impact.
- Do not use in places with corrosive acids and elements.
- Do not use excessive force to tighten the unit to the mounting plate and do not hammer the unit.
- Please process it as industrial waste and dispose responsibly.

DIMENSIONS

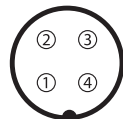


CONNECTION DIAGRAM

Cable Type



Junction Connector Type



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

MOUNTING AND ADJUSTMENTS

Sensitivity Adjustment

The sensitivity adjustment pot. is factory set to detect water. This setting should be ideal for most applications. However if the need arises to adjust the sensitivity the same can be done. Rotate clockwise to increase the sensitivity and anti-clockwise to decrease the sensitivity.

Mounting

Do not tighten the nut with excessive force. Rubber Washers must be used with the nut to prevent leakage. Max. force for M16 nut is 30Nm.



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