



Cat. No. ZXL-412

ZXL

LONG DISTANCE LASER 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.

CAUTION FOR SAFETY

- ⓘ Please keep this sheet for review before use of unit.
- ⓘ 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.

Class II LASER Product. Do not directly look into laser beam. Direct exposure may adversely affect eyesight.

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

⚠ CAUTION

- This unit shall not be used outdoors.
- Do not use the unit in places where there is flammable or explosive gas.
- 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; do not connect without load.
- 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 water or oil based detergent for cleaning the unit.
- 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.

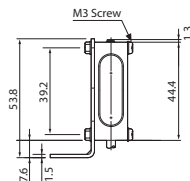
SPECIFICATIONS

*For details on Customized/ Special Models contact Seller

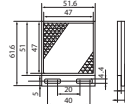
Type	Through Beam		Retro Reflective		
	PNP	NPN	PNP	NPN	
Control Output	Cable Type	ZXL-T40MP-2M	ZXL-T40MN-2M	ZXL-R5MP-2M	ZXL-R5MN-2M
	Connector Type	ZXL-T40MP-M8C	ZXL-T40MN-M8C	ZXL-R5MP-M8C	ZXL-R5MN-M8C
	Junction Connector	ZXL-T40MP-M12J3	ZXL-T40MN-M12J3	ZXL-R5MP-M12J3	ZXL-R5MN-M12J3
Sensing Distance	40 meter		5 meter		
Spot Size	Ø 15mm at 5 meter		Ø 20mm at 3.5 meter		
Test Object	-		with reflector P250F		
Response Time	0.5 m sec Max.				
Light Source	Red LD, Class II				
Light Wavelength	650 nm; Pulse Length 4 µs				
Sensitivity Adjustment	1 turn pot.				
Operation Mode	Light ON/ Dark ON selectable				
Supply Voltage	10 - 30 VDC (Ripple Max 10%)				
Current Consumption	max. 30mA				
Control Output Rating	Load Voltage: max. 30 VDC; Load Current: max 100mA				
Ambient Illumination	Sunlight: 10,000 lux; Lamp: 3,000 lux				
Operation Indication	Emitter: Laser ON (Green); Receiver: Output ON (Orange)		Laser ON - Green; Output ON - Orange		
Shock Resistance	upto 50G (500 m/s ²), X, Y, Z directions				
Ambient Temperature	Operation: -10° ~ 40°C; Storage: -25° ~ 50°C (non- freezing; non- condensing)				
Ambient Humidity	Operation: 35 ~ 85% RH; Storage: 35 ~ 95% RH (non- condensing)				
Protection Class	IP67				
Weight	Cable type: 66 g; Connector type: 20 g				
Material	Housing: ABS with Glass, Lens: PMMA or Eqv.				

DIMENSIONS

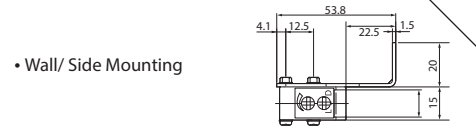
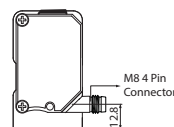
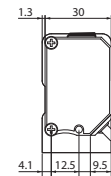
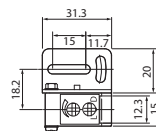
Floor/ Bottom Mounting



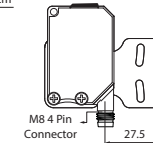
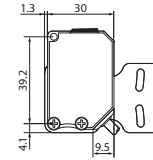
Reflector: P250F



Wall/ Side Mounting

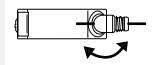


Cable: Ø4, 2m



⚠ CAUTION

The connector is rotatable as indicated in the diagram. Turn the connector only as the Black Arrow indicates. Turning beyond the free limit indicated in the diagram will damage the connector and the unit will be beyond repair.



SETTINGS & ADJUSTMENTS



LIGHT ON MODE
Turn the screw right towards L

DARK ON MODE
Turn the screw left towards D

Sensitivity

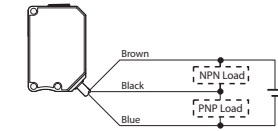


Turn the one-turn adjuster in the clockwise direction to increase sensitivity. Turn in anti-clockwise direction to decrease sensitivity.

CONNECTION DIAGRAM

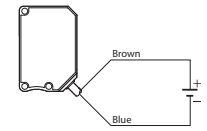
Cable

Through Beam- Receiver & Retro-reflective



Brown : DC 10~30V
Blue : GND
Black : Control Output

Through Beam- Transmitter



Brown : DC 10~30V
Blue : GND

Connector *

M8 Connector



M12 Junction Connector

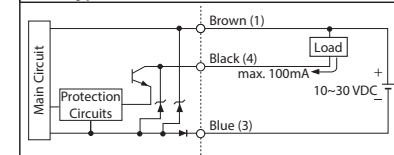


1 : DC 10~30V
2 : - (No Connection)
3 : 0V
4 : Control Output

Note: * - Connector Cable is not supplied along with unit

OUTPUT CIRCUIT DIAGRAM

NPN Type



PNP Type

