



Cat. No. FXE-BGS-512

FXE-BGS

EASY MOUNT

PHOTOELECTRIC 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.

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 and do not hammer the unit.
- Please process it as industrial waste and dispose responsibly.

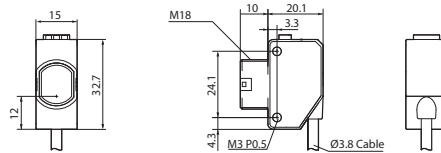
SPECIFICATIONS

*For details on Customized/ Special Models contact Seller

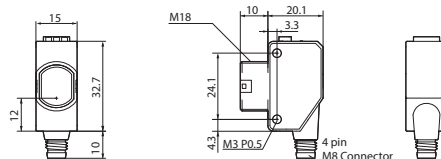
Type	Diffuse Reflective			
*Models	NPN	FXE-BGS-200ND-2M	FXE-BGS-200ND-M8C	FXE-BGS-200ND-M12J3
	PNP	FXE-BGS-200PD-2M	FXE-BGS-200PD-M8C	FXE-BGS-200PD-M12J3
Sensing Distance	0 ~ 200mm			
Setting Distance	30 ~ 200mm			
Spot Size	Ø 15mm at 200mm			
Hysteresis	5%			
Response Time	500 µ Sec			
Sensitivity Adjustment	Built-in externally adjustable 4 turn endless pot.			
Operation Mode	Light ON and Dark ON outputs provided			
Supply Voltage	10 - 30 VDC (Ripple Max 10%)			
Current Consumption	max. 30mA			
Protection Circuits	Reverse Polarity, Transient Voltages, Output Overcurrent indication			
Connection	Prewired 2 meter cable outgoing type	M8 Connector type	M12 Jn. Connector, 0.3m extension	
Control Output	NO, NC - NPN or PNP open collector output (depending on model)			
Control Output Rating	Load Voltage: max. 30 VDC; Load Current: max 100mA			
Operation Indication	GREEN: Stable; YELLOW: Output ON; RED: Alarm - Overload			
Shock Resistance	100 G- X,Y, Z three directions			
Environmental Illuminance	Sunlight: 10,000 lux, Lamp: 3,000 lux			
Ambient Temperature	Operation: -25° ~ 55°C; Storage: -40° ~ 70°C (non-freezing; non-condensing)			
Ambient Humidity	Operation: 35 ~ 85% RH; Storage: 35 ~ 90% RH (non-condensing)			
Protection Class	IP67			
Weight	approx. 10g without cable			
Material	Housing: ABS with Glass, Lens: PMMA or Eqv.			

DIMENSIONS

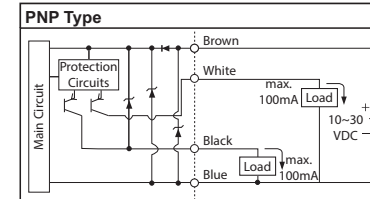
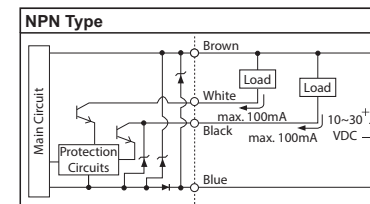
• Cable and Junction Connector Type



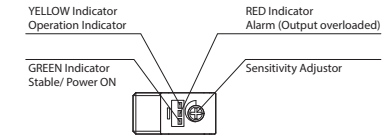
• Connector Type



OUTPUT CIRCUIT DIAGRAM



NOMENCLATURE



MOUNTING AND ADJUSTMENTS

• Mounting

M18 mounting shown in Fig (a).
Tightening torque 0.3 NM

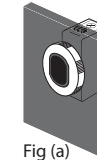


Fig (a)

To mount the sensor to a bracket as shown in Fig (b.), use M3 screws.
Tightening torque 0.6 Nm

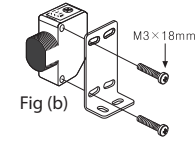


Fig (b)

• Sensitivity Adjustment



The adjuster is to be rotated in the clockwise direction to increase the sensitivity and thereby the sensing distance.



The adjuster is to be rotated in the anti-clockwise direction to decrease the sensitivity and thereby the sensing distance.

Represented by:

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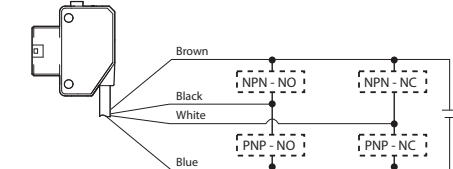


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CONNECTION DIAGRAM

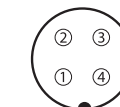
• Cable



• M8 Connector



• M12 Junction Connector



Brown (1) : DC 10~30V
White (2) : Light ON Output
Blue (3) : 0V
Black (4) : Dark ON Output