

FKF FLAT MOUNT PHOTOELECTRIC SENSOR

Cat. No. FKF-412

SPECIFICATIONS



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

Image: 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

1. This is not a safety product and is not to be used with machinery that requires use of safety control.

2. 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 !

\triangle caution

1. This unit shall not be used outdoors.

2. 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.

- 5. Please check the polarity of power and wrong wiring.
- 6. Do not use this unit in places where there is vibration or impact.
- 7. Do not use water or oil based detergent for cleaning the unit.
- 8. Do not use excessive force to tighten the unit and do not hammer the unit.

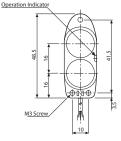
9. Please process it as industrial waste and dispose responsibily.

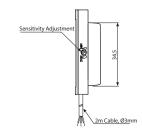
		*For details on Customized/ Special Models contact Seller			
Туре		Diffuse Reflective			
*Models	NPN	FKF-DL-2MNO-2M	FKF-DL-2MNO-M12J3	FKF-DD-2MNO-2M	FKF-DD-2MNO-M12J3
	PNP	FKF-DL-2MPO-2M	FKF-DL-2MPO-M12J3	FKF-DD-2MPO-2M	FKF-DD-2MPO-M12J3
Sensing Distance		2 meters			
Hysteresis		max. 20%			
Response Time		1 m sec			
Light Source		Infrared LED			
Light Wavelength		850 nm			
Sensitivity Adjustment		Built-in externaly adjustable pot.			
Operation Mode		Light ON		Dark ON	
Supply Voltage		12 - 24 VDC (Ripple Max 10%)			
Current Consumption		max. 30mA			
Protection Circuits		Reverse Polarity, Output Short Circuit Protection			
Connection		Prewired 2 meter cable outgoing type	M12 Jn. Connector, 0.3m extension	Prewired 2 meter cable outgoing type	M12 Jn. Connector, 0.3m extension
Control Output		NPN or PNP open collector output (depending on model)			
Control Output Rating		Load Voltage: max. 26 VDC; Load Current: max 100mA			
Operation Indication		RED: Operation; ORANGE: Light ON; GREEN: Dark ON			
Shock Resistance		10 G- X,Y, Z three directions			
Environmental Illuminance		Sunlight: 11,000 lux, Lamp: 3,000 lux			
Ambient Temperature		Operation: -20° ~ 55°C; Storage: -25° ~ 70°C (non- freezing; non- condensing)			
Ambient Humidity		Operation: 35 ~ 80% RH; Storage: 35 ~ 85% RH (non- condensing)			
Protection Class		IP64			
Weight		approx. 50g			
Material		Housing: ABS, Lens: Acrylic			

► DIMENSIONS

Cable Type and
 Junction Connector Type







ADJUSTMENT



The sensitivity adjuster is to bo set in such a way that the Stable Indication is 'ON' when the object is sensed. The stable indication color is defined in the 'Operation Type'.

The position 'a' is the minimum sensitivity position.

The position 'b' is the maximum sensitivity position.

Rotate the adjuster between minimum and maximum to achieve the desired sensitivity for Stable Detection Indication.

M12 Junction Connector



 Brown
 (1) : DC 10~30V

 (2) : (No Connection)

 Blue
 (3) : 0V

 Black
 (4) : Control Output

Rlac

Represented by:

NPN Load

PNP Load

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OUTPUT CIRCUIT DIAGRAM

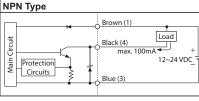
PNP Type

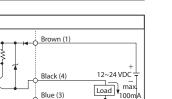
Protection

Circuits

Circuit

Mair





CONNECTION DIAGRAM

Cable

Sensing

target