



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

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

① Please observe the following:

A WARNING Serious injury may occur if instructions are not followed

 \triangle 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 unit in places where there is flammable/ explosive gas. 3. Please observe the rated specifications in Instruction Sheet. 4. Do not use this unit beyond rated power and do not supply AC power at DC power type; do not connect without load.

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.

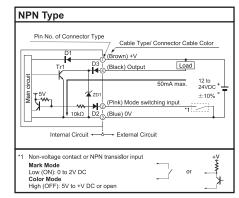
8. Do not use excessive force to tighten the unit to the mounting

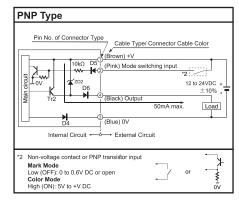
plate and do not hammer the unit. 9. Please process it as industrial waste and dispose responsibily.

1. A Warmup period of minimum 200 m sec is required on powerup. 2. Do not use the sensor in direct sunlight.

SFECIFICA				*For details on Customiz	ed/ Special Models contact Selle	
Туре		FP-CME-10P-2M	FP-CME-10N-2M	FP-CME-10P-M12C	FP-CME-10N-M12C	
Sensing Distance		10mm ±3mm				
Response Time	Mark Mode	45 μ Sec or less				
	Color Mode	150 μ Sec or less				
Light Source	Mark Mode	1 Color (Selectable by Teaching)				
	Color Mode	3 Color - RGB LED (Automatic Selection)				
Light Wavelength		Red: 640 nm; Green: 525 nm; Blue: 470 nm				
Sensitivity Adjustment		Pushbutton Teach with fine adjust buttons				
Supply Voltage		10 - 30 VDC (Ripple Max 10%)				
Current Consumption		max. 35 mA				
Connection		2 Mete	er Cable	M12 C	onnector	
Control Output		NPN or PNP open collector output (depending on model)				
Control Output Rating		Load Voltage: max. 30 VDC; Load Current: max 100mA; Residual Voltage: NPN- max 1 V, PNP- min (-2.5 V)				
Teach		Mark Mode: 2 Point Teach; Color Mode: 1 Point Teach				
Operation Indication		Output Indication - Orange				
Short-circuit Protection		Incorporated (Auto reset)				
Insulation Resistance		20 M Ω at 500 VDC				
Ambient Temperature		-10° ~ 55°C (non- freezing; non- condensing)				
Ambient Humidity		35 ~ 90% RH (non- condensing)				
Protection Class		IP67				
Weight		approx. 110 g				
Material		Housing: PBT ; Button: Silicone rubber				

OUTPUT CIRCUIT DIAGRAM



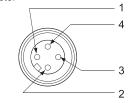


Symbols:

D1, D2, D3, D4, D5, D6	: Reverse supply polarity protection diode
ZD1, ZD2	: Surge absorption zener diode
Tr1	: NPN output transistor
Tr2	: PNP output transistor

CONNECTION DIAGRAM

Connector



Connector Pin No.	Description	
1	+V	
2	Mode Switch Input	
3	0 V	
4	Output	

OUTPUT MODES

Re

SPECIFICATIONS

	Color Mode	Mark Mode	
Light ON	Output is active	Output is active	
LIGHTON	when matched	for high reflection	
Dark ON	Output is active	Output is active	
Dark ON	when un-matched	for low reflection	
When 2 point teach, the 1st selected color will be Of			

epresented by:	UDU UDU
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MOUNTING AND ADJUSTMENTS

Make sure that the sensing side of the sensor is parallel with the surface of the sensing object. Normally, do not incline the sensor towards the sensing object. The sensor is to be placed at least 10mm away from any glossy or reflective surface.

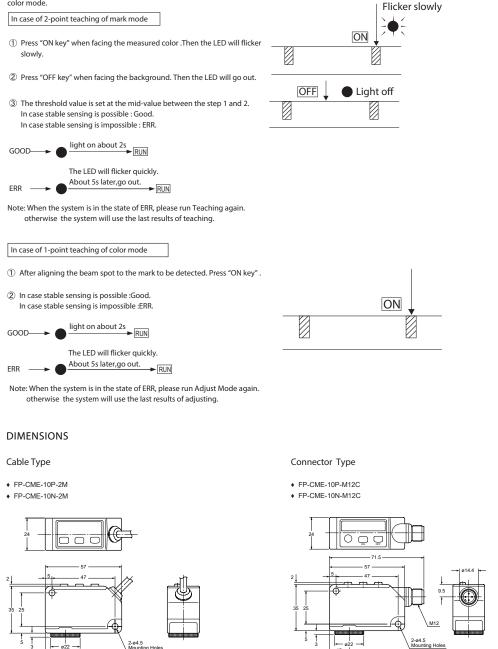


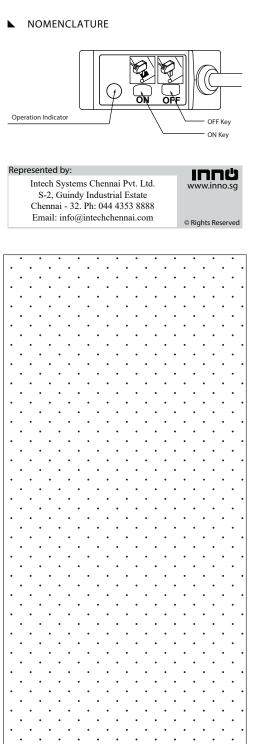
For detection of Glossy Objects, mount the sensor at an angle of 5° to 15°, as shown in the Fig. (a). This will improve the mark detection capability

► TEACHING

Before performing the Teaching, be sure to confirm the setting of mark mode or color mode.

2-ø4.5 Mounting Holes





INSTALLATION NOTES