

2 SPECIFICATIONS		
Туре	AC supply type	DC supply type
Item Model No.	CY-12	CY-22
Sensing range	120mm (Note)	
Sensing object	Opaque, translucent or transparent object	
Power supply	24 to 240V AC +10 %	10 to 30V DC
Power / Current consumption	2.7VA or less	25mA or less
Response time	20ms or less	2ms or less
Operation indicator	Red LED (lights up when the output is ON)	
Protection	IP67 (IEC)	
Ambient temperature	-25 to +55°C (No dew condensation or icing allowed) Storage: -30 to +70°C	
Ambient humidity	35 to 85% RH, Storage: 35 to 85% RH	
Emitting element	Infrared LED (modulated)	
Weight	100g approx.	
Accessories	Nut: 2 pcs.	

Note: The sensing range of the diffuse reflective type sensor is specified for white non-glossy paper (200 × 200mm) as the object.

3 CAUTIONS

- This product has been developed / produced for industrial use only.
- Make sure that the power supply is off while wiring.
- Take care that wrong wiring will damage the sensor.
- Verify that the supply voltage variation is within the rating.
- If power is supplied from a commercial switching regulator, ensure that the frame ground (F.G.) terminal of the power supply is connected to an actual ground.
- Do not run the wires together with high-voltage lines or power lines or put them in the same raceway. This can cause malfunction due to induction.
- In case noise generating equipment (switching regulator, inverter motor, etc.) is used in the vicinity of this product, connect the frame ground (F.G.) terminal of the equipment to an actual ground.
- Do not use during the initial transient time (50ms) after the power supply is switched on.
- Extension up to total 100m, or less, is possible with 0.34mm², or more, cable. However, in order to reduce noise, make the wiring as short as possible.
- Make sure that stress by forcible bend or pulling is not applied directly to the sensor cable joint.
- Take care that the sensor is not directly exposed to fluorescent light from a rapid-starter lamp or a high frequency lighting device, as it may affect the sensing performance.
- This sensor is suitable for indoor use only.
- The tightening torque should be 2N·m or less.
- The following items are required, as conditions for use in order to conform to CE.
 - The output applied voltage should be the same as the supply voltage of the sensor.
 - Be sure to add a short-circuit protection (a fuse or a breaker) to the power supply input and the output.

4 CONNECTION

• When using the pigtailed type, purchase the mating cable (optional).

Connecting

- ① Put female and male connectors together
- as the convex and the concave meet. (2) Hold one ring not to rotate and turn the other ring clockwise until they become tight.



Sensor side

DC supply type

Concave

Disconnecting

① Turn the ring counterclockwise and separate them.



5 INTENDED PRODUCTS FOR CE MARKING

- The models listed under 'S SPECIFICATIONS' CE come with CE Marking. As for all other models, please contact our office.
- Contact for CE

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