Photoelectric Sensor
Cylindrical Type



C2 series

· C2DP- □□□	• C2RP- □□□
· C2TP- □□□	

· C2DM- □□□ · C2RM- □□□

· C2TM- ...

INSTRUCTION MANUAL

- Confirm if the item meets your needs
- Before the use, you should first thoroughly read this manual and operate correctly as mentioned.
- · You should keep this manual at hand for proper use.

Carefully read and understand the safety precautions before operation The important information is provided to protect your health and property Do not apply any other installing or operating procedure other than that described in this manual.

Diffuse Reflective Through-Beam 110mm type 800mm type With polarizing filter Without polarizing filter 400mm type C2DP-40(N,P) Cable type C2DP-11(N,P) C2DP-80(N,P) Plastic housing M12 Connector type C2DP-40C(N,P) C2DP-11C(N,P) C2DP-80C(N,P) Cable type C2TM-2000(N.P) C2RM-F400(N,P) C2RM-350(N,P) C2DM-11(N.P) C2DM-40(N.P) C2DM-80(N.P) M12 Connector type C2DM-11C(N,P) C2DM-40C(N,P) C2DM-80C(N,P) 0.01 ~ 4m (V-61) | 0.01 ~ 3.5m (V-61) 40cm *1 φ1100mm / 20m Spot Size φ8mm / 11cm φ20mm / 40cm □30mm / 80cm Light Source Supply Voltage DC10 ~ 30V includi Emitter: 20mA max. Current Consumption 20mA max Receiver: 15mA max. Hysteresis 10% max 0.5ms max. Response Time Control Output NPN/PNP Open Collector 100mA max. / DC30V max. (Residual voltage max. 1.8V / 100mA max.) Operation Mode Light ON / Dark ON selectable by control wires Sensitivity Adjustment 1 turn pot. LED Indicator Output indicator (Orange LED) / Stability indicator (Green LED) Environmental illumin Sunlight: 10,000 lux, Incandescent lamp: 3,000 lux max. Vibration Resistance 55Hz amplitude 1.5mm X Y Z each 2 hours Shock Resistance Operating / Storage Temperature Operating / Storare humidity Operating humidity $~35\sim85\% {\rm RH}$ / Storage humidity $~:35\sim95\% {\rm RH}$ IEC IP67(common to any type) Plastic housing : PBT (glass included) / Metal housing : BSBM、 Front Cover , Lens : PMMA Protection / Material

White Paper 90%

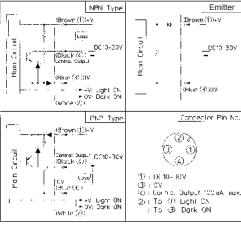
Specifications

Safety Precautions

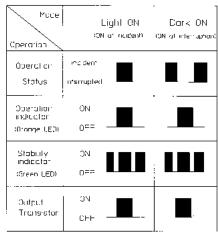
!CAUTION

- It is dangerous to wire or attach/remove the connector with the power on. Make sure to turn off the power before operation.
- Make sure to use the product with the protective cover attached and closed.
- Installing in the following places may result in malfunction: 1. A dusty or steamy place
- 2. A place generating corrosive gas
- 3. A place directly receiving scattering water or oil.
- 4. A place suffered from heavy vibration or impact. The product is not designed for outdoor use.
- Do not use the sensor in transient state after power on (approx. 100 ms).
- Do not wire with the high voltage cable or the power line. Failure to do this will cause malfunction by induction or
- The sensor performance or digital display values may depend on the individual units or the condition of detected product.
- This product is not an explosion-proof construction. Do not use the product under flammable, explosive gas or liquid environment.
- Do not use the product in water.
- Do not disassemble, repair, or convert the product.
 Failure to do this may cause failure, fire, or electric shock
- Operate within the rated range.

Input / Output Circuit Diagram



Operating Chart



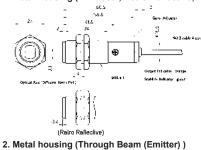
Dimensions

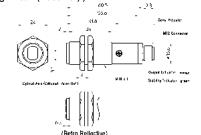
1. Metal housing (Diffused , Retro Reflective, Through Beam(Receiver))

918 (4) + 2 (4)

3. Plastic housing (Diffused, Retro Reflective. Through Beam (Receiver))

Output Indicator I wang





∕!\CAUTION

! Must not use this item as safety equipment for the purpose of human body protection.

Set Up Torque

Plastic housing models

Tightening torque needs to be under 1.5N·m(15kaf·cm).

Metal housing models

Tightening torque needs to be under 20N·m(200kgf·cm).

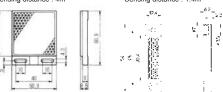


Reflectors

 Type V-61 Standard for Retro type Sensing distance : 4m







 Type V-42 Optional Reflector Sensing distance: 2.5m

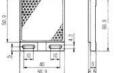


- Specifications and equipments are subject to change without any
- For more information, questions and comments regarding products, contact authorized distributors of us.

Manufactured and sold by:



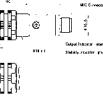
Website: http://www.optex-fa.com



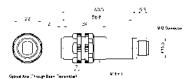














4. Plastic housing (Through Beam(Emitter))

56.6