Photoelectric Sensor Cylindrical Type



C2 series

· C2DP- □□□ · C2RP- □□□		C2DP-			C2RP-	
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• 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. **Specifications**

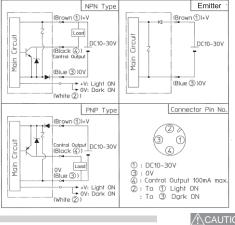
To a	Туре		Retro R	eflective	Diffuse Reflective				
ı y	pe	Through-Beam	With polarizing filter	Without polarizing filter	110mm type	400mm type	800mm type		
Plastic housing	Cable type	C2TP-2000(N,P)	C2RP-F400(N,P)	C2RP-350(N,P)	C2DP-11(N,P)	C2DP-40(N,P)	C2DP-80(N,P)		
Plastic flousing	M12 Connector type	C2TP-2000C(N,P)	C2RP-F400C(N,P)	C2RP-350C(N,P)	C2DP-11C(N,P)	C2DP-40C(N,P)	C2DP-80C(N,P)		
Metal housing	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)		
wetarnousing	M12 Connector type	C2TM-2000C(N,P)	C2RM-F400C(N,P)	C2RM-350C(N,P)	C2DM-11C(N,P)	C2DM-40C(N,P)	C2DM-80C(N,P)		
Sensing	Distance	20m	0.01 ∼ 4m (V-61)	$0.01 \sim 3.5 \text{m} \text{ (V-61)}$	11cm *1	40cm *1	80cm *1		
Spot	Size	ф 1100mm / 20m	ф 270mm / 4m	ф 240mm / 3.5m	Ф8mm / 11cm	Ф 20mm / 40cm	□30mm / 80cm		
Light Source		Red	LED IR LED Red LED						
Supply	Supply Voltage		DC10 \sim 30V including ripple (P-P) 10%						
Current Co	Current Consumption		Emitter: 20mA max.						
Cullent Co			Receiver: 15mA max.						
Hysteresis			- 10% max.						
Response Time Control Output Operation Mode		0.5ms max.							
		NPN/PNP Open Collector 100mA max. / DC30V max. (Residual voltage max. 1.8V / 100mA max.)							
		Light ON / Dark ON selectable by control wires							
Sensitivity Adjustment		1 turn pot.							
LED Indicator		Output indicator (Orange LED) / Stability indicator (Green LED)							
Environmenta		Sunlight: 10,000 lux, Incandescent lamp: 3,000 lux max.							
Vibration F	Vibration Resistance $10 \sim 55 \mathrm{Hz}$ amplitude 1. 5mm X Y Z each 2 hours								
	Shock Resistance 500m/s ² (50G) X Y Z each 3 times								
	perating / Storage Temperature $-25 \sim +55\%$ (no freezing) / Storage temperature : $-30 \sim +70\%$				rc				
	orare humidity	Operating humidity 35 ~ 85%RH / Storage humidity : 35 ~ 95%RH							
Protection	/ Material	IEC IP67(common to any type) Plastic housing: PBT (glass included) / Metal housing: BSBM、 Front Cover , Lens: PMMA							

*1 White Paper 90%

Safety Precautions

- 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
- 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

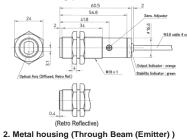


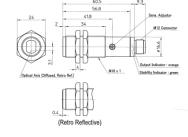
Operating Chart

•	•	
Mode Operation	Light ON (ON at Incident)	Dark ON (ON at interruption)
Operation Status	incident Interrupted —	
Operation indicator (Orange LED)	ON OFF	
Stability indicator (Green LED)	ON OFF	
Output Transistor	ON OFF	

Dimensions

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





↑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(15kgf·cm).

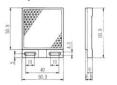
· Metal housing models

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

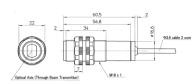
3. Plastic housing (Diffused, Retro Reflective. Through Beam (Receiver))



(Unit: mm)

4. Plastic housing (Through Beam(Emitter))

(Retro Reflective)



- M18 x 1
- Specifications and equipments are subject to change without any prior notice.
- For more information, questions and comments regarding products, contact authorized distributors of us.

Manufactured and sold by :

