

- Specifications are subject to change without prior notice.
- Specifications and technical information not mentioned here are written in Operation Manual. Or visit our website for details.
- All the warnings and cautions to know prior to use are given in Operation Manual.



600-8815 Kyoto, Shimogyo-ku, Chudoji Awata 93, Japan TEL. +81-(0)75-325-2920 FAX. +81-(0)75-325-2921 http://www.optex-fa.com

74608-00-QL0903



Well known for its conventional shape but not conventional in quality. An ultimate cylindrical sensor designed in Japan.

Custom ASIC with Power Circuit

The electric circuit consists mainly of Optex FA's custom ASIC with only 27 electric components.

The ASIC contains power circuit and this helps to avoid defects by electric damage from the power line



RoHS products (Plastic type)

Plastic products conform to RoHS standards. With an Eco-minded electric design, the current consumption is only 18mA (Diffuse type)



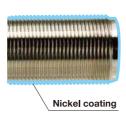
Trimmer of Silicon plastic for high durability against chemical impact.

The trimmer is tightly locked against water with IP67 rating. Silicon plastic trimmer is the best solution against water, oil. chemical and environmental heat.



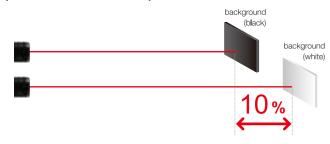
Nickel coating of $20\,\mu$ thickness for anti-rust solution.

Metal type products consist of brass-nickel housing with extra nickel coating of 20µ thickness. Metal type consists of brass-nickel housing with extra nickel coating of 20u thickness. This coating is done for the external and internal of the housing. It helps protect the metal housing against rust and toughen it.



Hysteresis of Max 10%. Between black/white colors.

Between black/white colors, hysteresis is Max at 10% (Diffuse type). C2DM-11 gives a sensing distance of 110mm for white object and 90mm for black object.



High Power sensing at Max 40m distance (Thru-beam type)

High Power LED gives a good 40M sensing distance.



Easy Alignment and installation

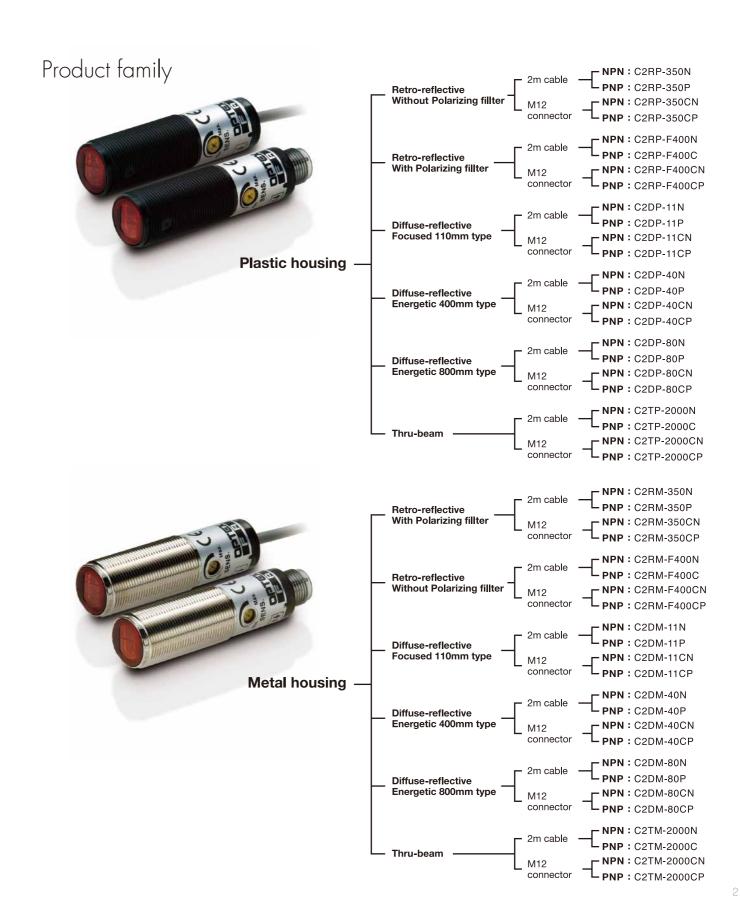
Ample sensing area provides easy alignment when installing the thru-beam sensor. For instance, there is an allowance of 70cm to align the sensor at 10M distance. The highly bright LED is visible at long distance as well.



Durable to 70N (7kg) of tension

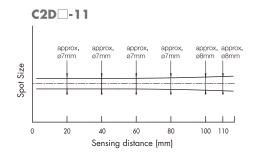
The cable is firmly fixed to the internal circuit board so that it can withstand pulling tension of up to 70N (7kg)

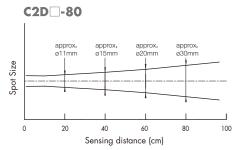


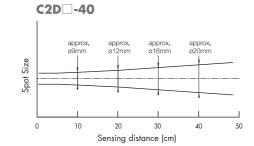


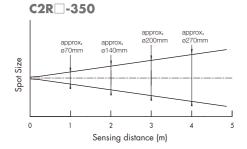
SPOT SIZE

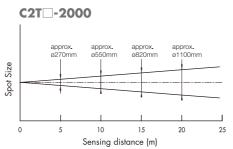
*common between plastic / metal housing











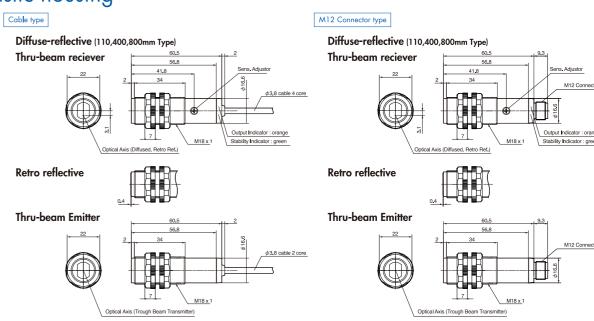
SPECIFICATIONS

Туре		Thru-beam	Retro-reflective		Diffuse-reflective		
			With polarizing filter	Without polarizing filter	110mm type	400mm type	800mm type
Plastic housing	Cable	C2TP-2000(N,P)	C2RP-F400(N,P)	C2RP-350(N,P)	C2DP-11(N,P)	C2DP-40(N,P)	C2DP-80(N,P)
	M12 Connector	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	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	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 \sim 4m (V-61)	0.01 \sim 3.5m (V-61)	11cm *1	40cm *1	80cm *1
Spot size		∮1100 mm / 20m	φ270 mm / 4m	φ240 mm / 3.5m	φ8 mm / 11cm	φ20 mm / 40cm	φ30 mm / 80cm
Light source		Red LED	d LED Red LED				
Supply voltage		DC10~30V including ripple (P-P) 10%					
Power consumption		Emitter: 20mA Max 20mA Max					
		Receiver: 15mA Max					
Hysteresis		- 10% Max					
Response time		0.5ms Max					
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 illuminance		Sunlight: 10,000 lux, Incandescent lamp: 3,000 lux Max					
Vibration resistance		10 ~ 55Hz amplitude 1.5mm X-Y-Z each 2 hours					
Shock resistance		500m/S² (50G) X-Y-Z each 3 times					
Operating / Storage temperature		Operating temperature : -25 \sim +55 °C (no freezing) / Storage temperature : -30 \sim +70 °C					
Operating / Storare humidity		Operating humidity: 35 \sim 85%RH / Storage humidity: 35 \sim 95%RH					
Protection / Material		IEC IP67(common to any type) Plastic housing: PBT(glass included) / Metal housing: BSBM, Front Cover, Lens: PMMA					

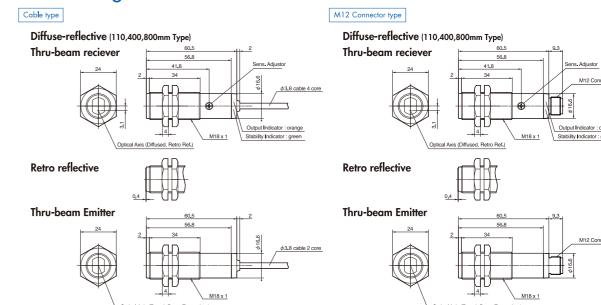
^{*1} White Paper 90%

DIMENSIONS

Plastic housing



Metal housing



Options

