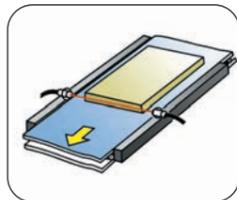


C series

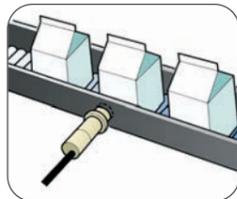


- Epoxy filled housing ensures resistance to vibration.
- M12 QD types are available.
- Rigid Nickel Plated Brass housing.

Applications



Positioning of wooden plate



Counting food packages

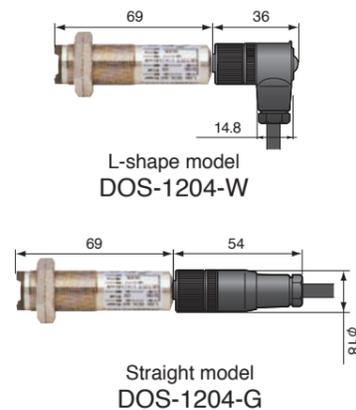
Nickel plated brass body, resistant to vibration and damage from chemicals.

Superior in performance to sensors with plastic bodies in terms of durability and resistance to chemicals, oils and mechanical vibration.

The beam can be turned 90 degrees by using the optional side view attachments.

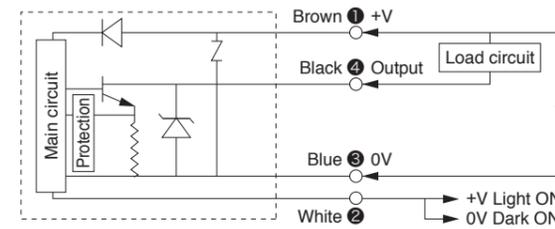
CRDF retro-reflection type with built-in polarizing filter.

Optional Straight and 90 degree connectors

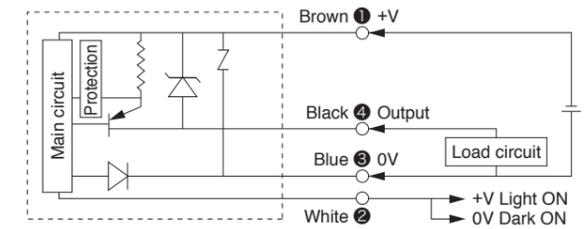


Circuit diagram

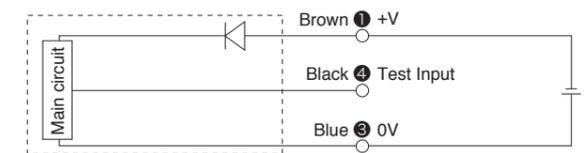
NPN output



PNP output

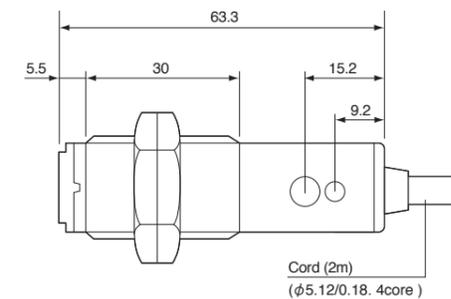


Emitter

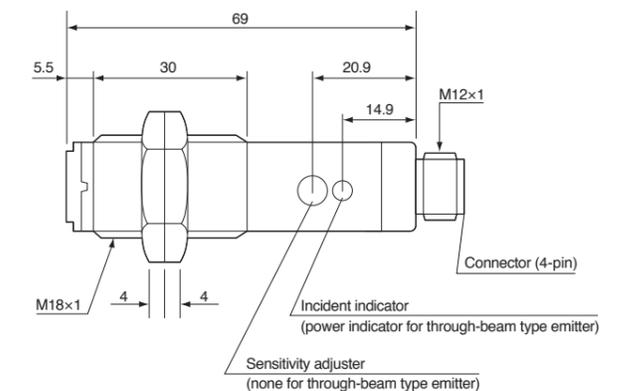


Dimensions

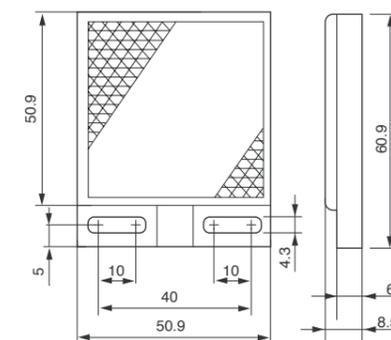
Cable type



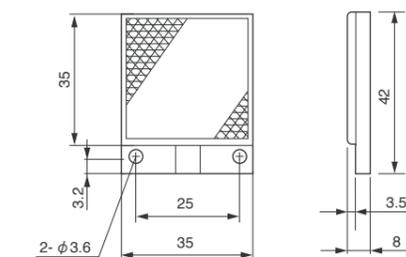
M12 QD type



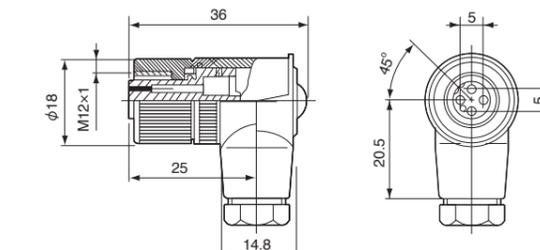
Standard reflector V-61



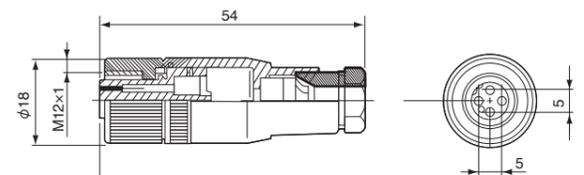
Small reflector V-42



90 degree QD connector DOS-1204-W



Standard QD connector DOS-1204-G



(Unit : mm)

Specifications

Model	Thru-beam	Retro-reflective	Retro-reflective w Polarizing filter	Diffuse reflective 11cm	Diffuse reflective 40cm
Cable type	NPN CTD-1500N	CRD-300N	CRDF-100N	CDD-11N	CDD-40N
Connector type	PNP CTD-1500P	CRD-300P	CRDF-100P	CDD-11P	CDD-40P
	PNP CTD-1500CP	CRD-300CP	CRDF-100CP	CDD-11CP	CDD-40CP
Sensing distance	15m	3m	1m	11cm	40cm
Response time	1.5msec Max				
Operation mode	Light ON / Dark ON selectable				
Hysteresis	NIL			10% Max	
Light source	Infrared		Red	Infrared	
Control output	NPN or PNP Open collector, 100mA Max / 30V DC				
Supply voltage	DC 10 to 30V including 10% of ripple				
Conformity	JIS / C4525, CE, UL				
Power consumption	40mA Max	30mA Max			
Ambient temp / humidity	-25 up to 55 °C / 35 up to 95% RH				
Sensitivity adjustment	Single turn potentiometer				
Protection category	IEC 144 IP66				
Shock resistance	50G (500m/S ²), X-Y-Z axis 3 times				
Material	Case : BSBM+Ni, Lens : PC				
Reflector	-	V-61	-	-	-

Options

Standard reflector V-61



Small reflector V-42



DOS-1204-W
90 degree QD connector



DOS-1204-G
Standard QD connector



Photoelectric Sensor C2 series



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

Custom ASIC with Power Circuit

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



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

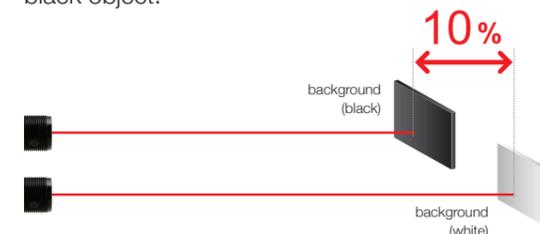
RoHS products

Both plastic housing and metal housing are RoHS compliant. With an Eco-minded electric design, the current consumption is only 18mA (Diffuse type)



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.



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.



BGS type sensors

BGS type sensors are designed to detect any target regardless of the color and/or background.



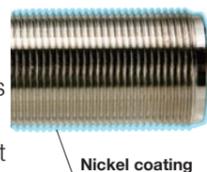
Trimmer of Silicon plastic for high durability against chemical impact.

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



Nickel coating of 20µ thickness for anti-rust solution.

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



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).

