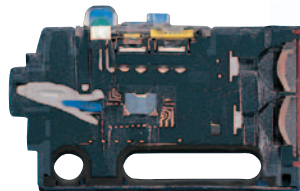


Perfectly Water-Proof Sensor

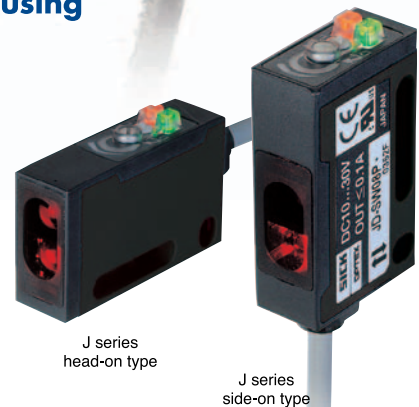
J series

IP-67g of perfect water-tightness even to oil,
realized by fully injected epoxy inside the body. (IP67)
Tough also to shock and vibration. (100G,-1000m/S2)

- Through-beam type
JT-H(S)1000NR / H(S)1000PR : 10m
- Retro-reflection type with polarizing filter
JR-H(S)300N / H(S)300P : 3m
- Diffused reflection type
JD-H(S)80N / H(S)80P : 80cm
- Limited range[convergent]type
JD-H(S)L03N / H(S)L03P : 2-5cm
- Wide angle[divergent]type
JD-H(S)W08N / H(S)W08P : 8cm
- M8 Connector versions are available for all the NPN / PNP type



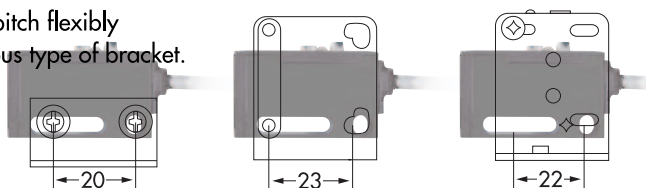
**Epoxy filled in the housing
for water tightness**



Features

Long screw hole enhancing flexibility of mounting (Applicable both to M3 and M4)

25.4mm mounting pitch flexibly
applicable to various type of bracket.



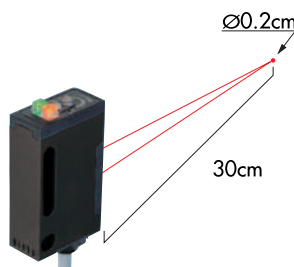
M8 connector for easy maintenance.

Small M8 connector type enables also
to be installed even in a narrow space.



Visible red spot lightening up target point

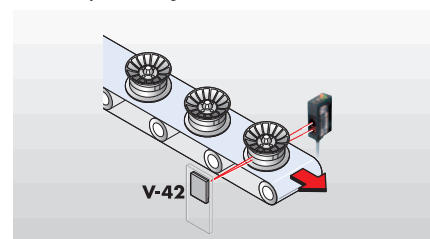
The visible red LED helps your optical alignment.
The red spot is approximately 0.2cm dia
at 30cm away from the sensor.



Applications (example)

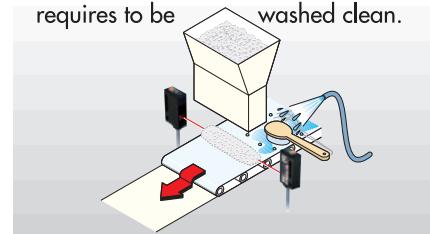
Counting wheels

100G protected J series is ideal for
conveyor that gives continuous vibration.



Existing of cookie paste

IP67G a perfect water-tight J series is
ideal for cookie making machine that
requires to be washed clean.



Product Type (N=NPN,P=PNP)

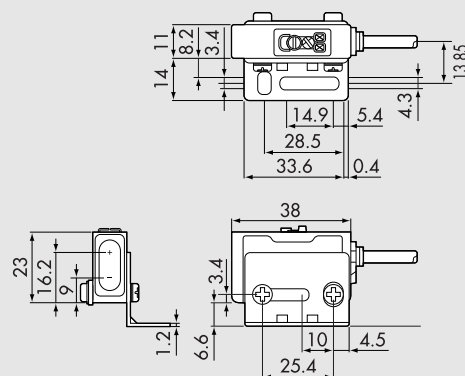
	Optical system	Side on	Head on		Optical system	Side on	Head on
Cable type	Through-beam	JT-S1000NR / JT-S1000PR	JT-H1000NR / JT-H1000PR	Connector type	Through-beam	JT-S1000CNR / JT-S1000CPR	JT-H1000CNR / JT-H1000CPR
	Retro-reflection	JR-S300N / JR-S300P	JR-H300N / JR-H300P		Retro-reflection	JR-S300CN / JR-S300CP	JR-H300CN / JR-H300CP
	Diffused reflection	JD-S80N / JD-S80P	JD-H80N / JD-H80P		Diffused reflection	JD-S80CN / JD-S80CP	JD-H80CN / JD-H80CP
	Limited range (convergent)	JD-SL03N / JD-SL03P	JD-HL03N / JD-HL03P		Limited range (convergent)	JD-SL03CN / JD-SL03CP	JD-HL03CN / JD-HL03CP
	Wide angle (divergent)	JD-SW08N / JD-SW08P	JD-HW08N / JD-HW08P		Wide angle (divergent)	JD-SW08CN / JD-SW08CP	JD-HW08CN / JD-HW08CP

Specifications

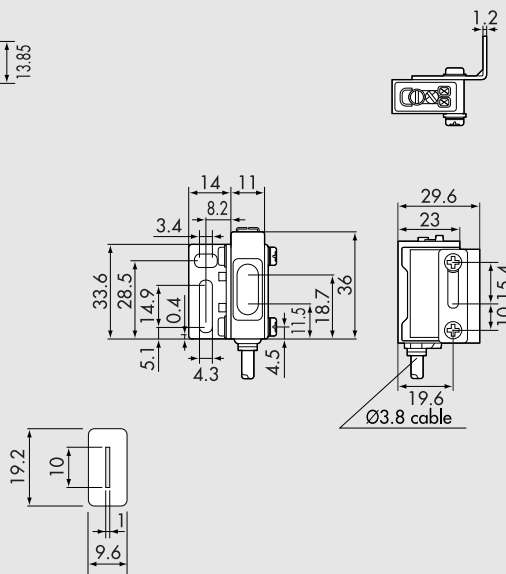
Model	Through-beam	Retro-reflection	Diffused reflection	Limited range (convergent)	Wide angle (divergent)
Cable type NPN/PNP	JT-H(S)1000NR / H(S)1000PR	JR-H(S)300N / H(S)300P	JD-H(S)80N / H(S)80P	JD-H(S)L03N / H(S)L03P	JD-H(S)W08N / H(S)W08P
M8 connector type NPN/PNP	JT-H(S)1000CNR / H(S)1000CPR	JR-H(S)300CN / H(S)300CP	JD-H(S)80CN / H(S)80CP	JD-H(S)L03CN / H(S)L03CP	JD-H(S)W08CN / H(S)W08CP
Sensing range	10 m	3 m	80 cm	2 - 5 cm	8 cm
Response time	0.5msec Max				
Operation Mode	Light on / Dark on switchover				
Hysteresis	NIL		20% Max		
Light source	Red				Infrared
Control output	NPN or PNP Open collector, 100mA Max / 30V DC				
Supply voltage	DC 10 to 30 V including 10% of ripple				
Conformity	JIS / C4525, CE, UL				
Power consumption	Emitter:20mA, Receiver 15mA	20mA Max			
Sensitivity adjustment	2-turn Potentiometer				
Indicator	2 indicator, Output(Orange), Stable(Green)				
Protection category	IEC 144 IP67, JEM IP67g				
Shock resistance	100G(1,000m/S ²),X-Y-Z axis 3times				
Environment illuminance	Sunlight:10,000lux max., Incandescent lamp:3,000 lux max.				
Housing Material	PBT(Case),PC(Lens)				

Dimensions

●Head ON type



●Side ON type

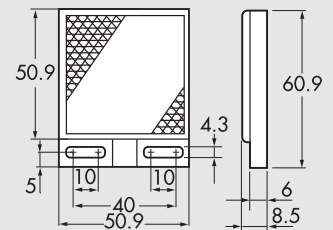


●Slit SJ-01 (Optical only for JT types)

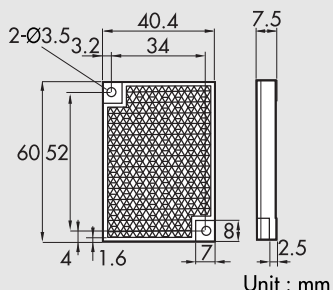
Slit size	Installation	Minimum	Maximum distance
1×10mm	Both of emitter / receiver	0.6mm	1m

* Just split the sticker to fix on the surface of lens.

●Standard reflector V-61



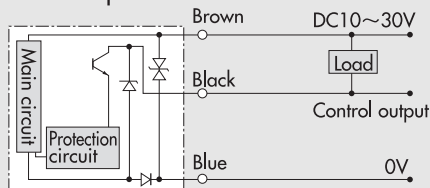
●Anti-blur reflector V-60k



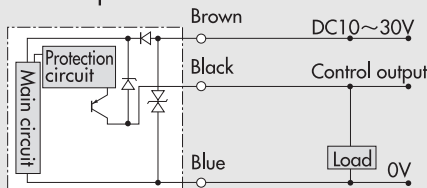
Unit : mm

Connection diagram

NPN output



PNP output



*Technical date, specsheet, instruction manual and this catalogue is available for download. Visit our Website ; <http://www.optex-fa.com> For technical support please call our authorized distributor in your country that is also listed in our Website.

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