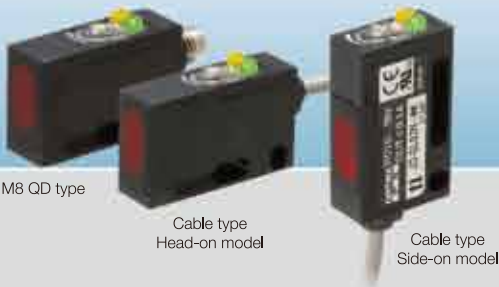


Photoelectric Sensor
E series



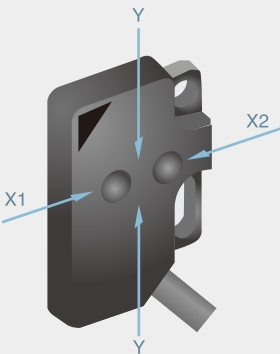
Photoelectric Sensor
J series

Thru-beam type
(Sensing distance : 10m)
· JT-H(S)1000NR / PR / CNR / CPR

Retro-reflective type with polarizing filter
(Sensing distance : 3m)
· JR-H(S)300N / P / CN / CP

Next page

Reference (typical)

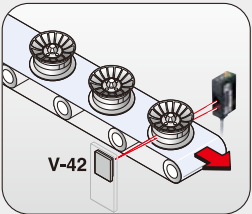


Repeat Accuracy

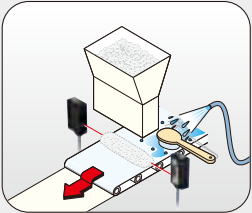
EL-30			EL-15			EL-08		
X1	X2	Y	X1	X2	Y	X1	X2	Y
0.8	0.8	0.8	0.3	0.3	0.3	0.1	0.1	0.1

(Unit : mm)

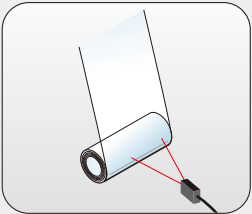
Applications



Counting wheels
(JR-S300)



Monitoring cookie paste
(JT-S1000)



Roll of transparent film
(JD-HW08)

- Epoxy filled sensor housing provides IP67G rating for complete protection against water.
- 100G of shock resistance.
- M8 QD types are available for over all types.

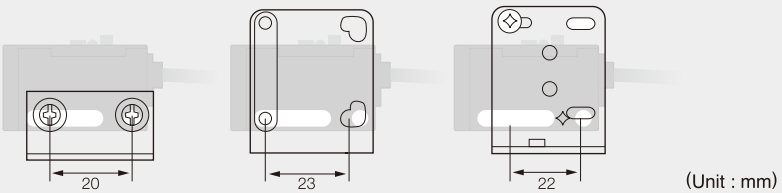
Features

Epoxy filled housing provides complete protection against water.



Slotted mounting holes for added flexibility.
(Applicable for both M3 and M4)

The slotted mounting hole (25.4 mm pitch) allows the sensor to be used with various types of mounting brackets.



(Unit : mm)

M8 QD for easy maintenance

The M8 QD connector types are small enough to be installed in areas where mounting space is limited.



(Unit : mm)

Visible red spot

Visible red LED spot for easy alignment of the sensor. The projected spot is approx. 2 mm dia. at 30 cm distance from the sensor.



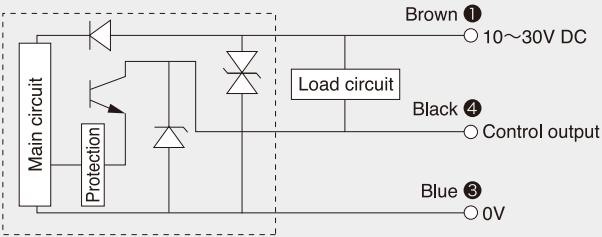
Diffuse reflective type
(Sensing distance : 80cm)
・ JD-H(S)80N / P / CN / CP

Limited range (convergent) type
(Sensing distance : 2 - 5cm)
・ JD-H(S)L03N / P / CN / CP

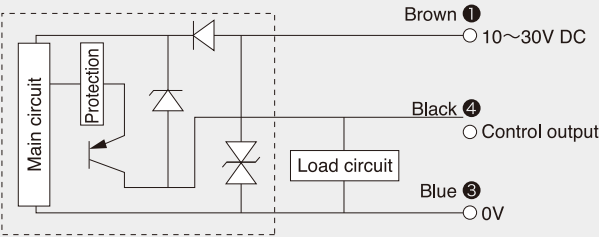
Wide angle (divergent) type
(Sensing distance : 8cm)
・ JD-H(S)W08N / P / CN / CP

Circuit diagram

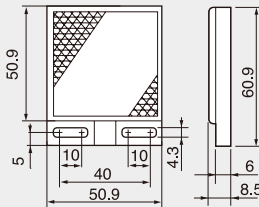
NPN output



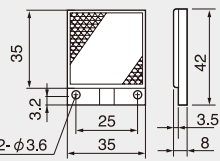
PNP output



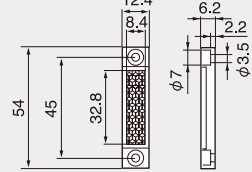
Standard reflector V-61



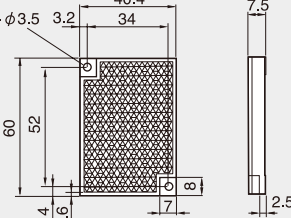
Small reflector V-42



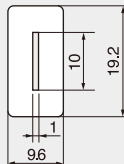
Tiny reflector P-45



Anti-cloud reflector V-60K

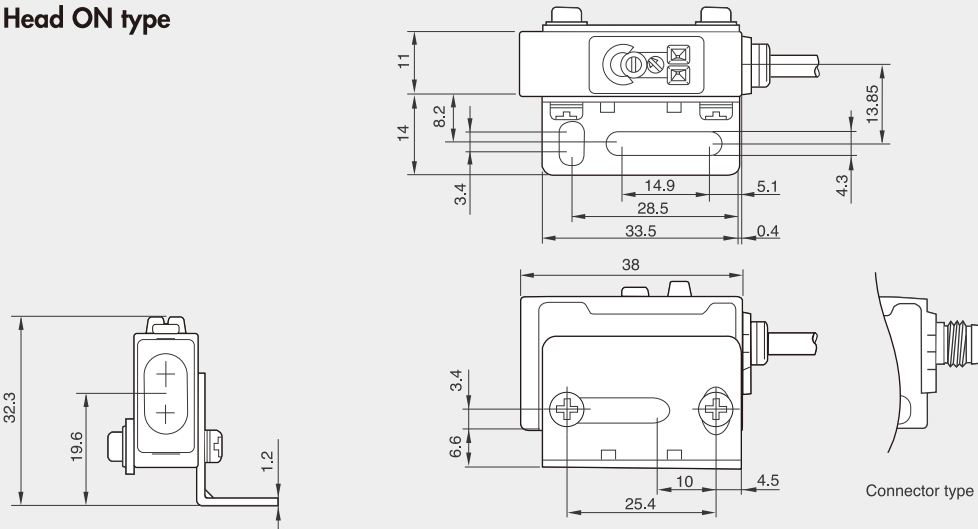


SJ-01 Slit mask for JT types

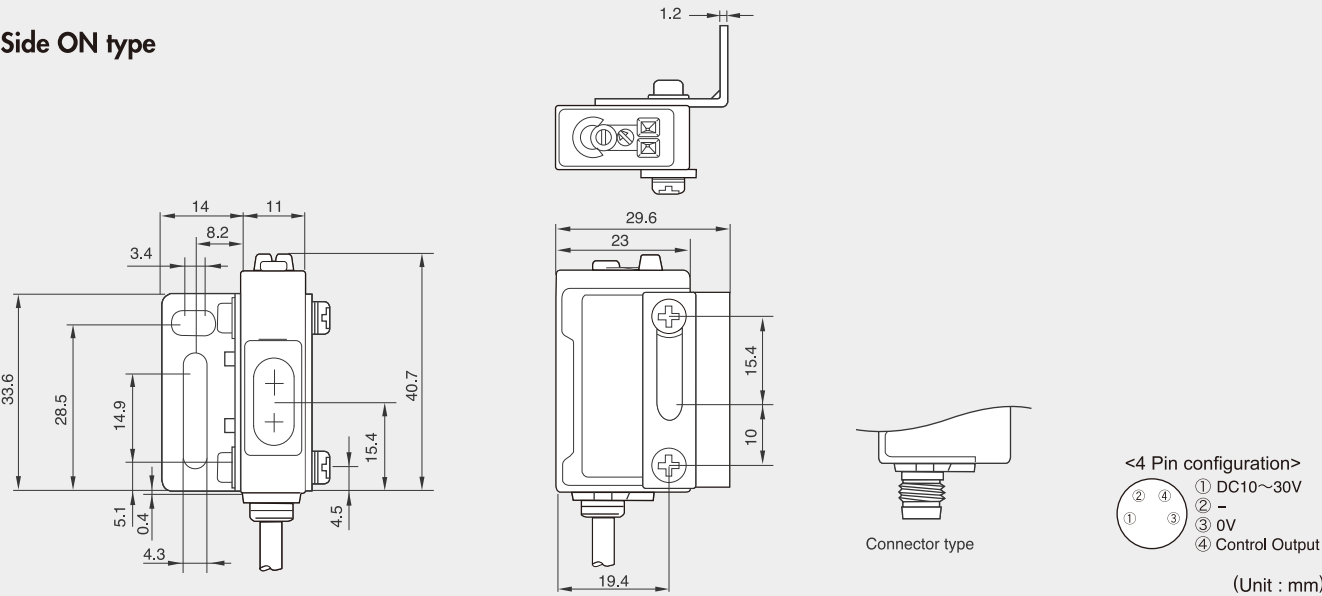


Dimensions

Head ON type

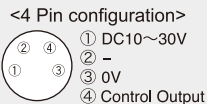


Side ON type



Specifications

Model		Thru-beam	Retro-Reflection	Diffuse Reflection	Limited range (convergent)	Wide angle (divergent)
Cable type	NPN	JT-H(S)1000NR	JR-H(S)300N	JD-H(S)R80N	JD-H(S)L03N	JD-H(S)W08N
	PNP	JT-H(S)1000PR	JR-H(S)300P	JD-H(S)R80P	JD-H(S)L03P	JD-H(S)W08P
Connector type	NPN	JT-H(S)1000CNR	JR-H(S)300CN	JD-H(S)R80CN	JD-H(S)L03CN	JD-H(S)W08CN
	PNP	JT-H(S)1000CPR	JR-H(S)300CP	JD-H(S)R80CP	JD-H(S)L03CP	JD-H(S)W08CP
Sensing distance		10m	3m	80cm	2-5cm	8cm
Response time		0.5msec Max				
Operating mode		Light on / Dark on selectable				
Hysteresis		NIL			20% Max	
Light source		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		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 3 times				
Environmental illuminance		Sunlight : 10,000 lux Max, Incandescent lamp : 3,000 lux Max.				
Material		PBT (Case), PC (Lens)				



(Unit : mm)

Options

Standard reflector V-61



Small reflector V-42



Tiny reflector P-45



Anti-cloud reflector V-60K



JCN-S : M8 Straight type



JCN-S : 2 meter
JCN-5S : 5 meter
JCN-10S : 10 meter

JCN-L : M8 L-shape type



JCN-L : 2 meter
JCN-5L : 5 meter
JCN-10L : 10 meter

Protective mounting brackets (For Head-on types)

LJ-H01 : Protector



LJ-H02 : Protector



Protective mounting brackets (For Side-on types)

LJ-S01 : Protector



LJ-S02 : Protector



SJ-01 Slit mask for JT types



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

Sensor stand PLN-1

Fixture of Reflector PLN-1M



Reference (typical)

