

Teach-In Setting

# J2 series

**Complete water-proof teach-in sensor**

**It's new! All the BGS(background suppression) Narrow angle, Small spot, and all other latest functions available by Teach-in setting. Diffuse Type gives 1 meter long distance.**

■ **Narrow View**

Cable type J2D-H10N, J2D-S10N, J2D-H10P, J2D-S10P  
M8 Connector type J2D-H10CN, J2D-S10CN, J2D-H10CP, J2D-S10CP

■ **Diffuse type (Infrared), Longer distance**

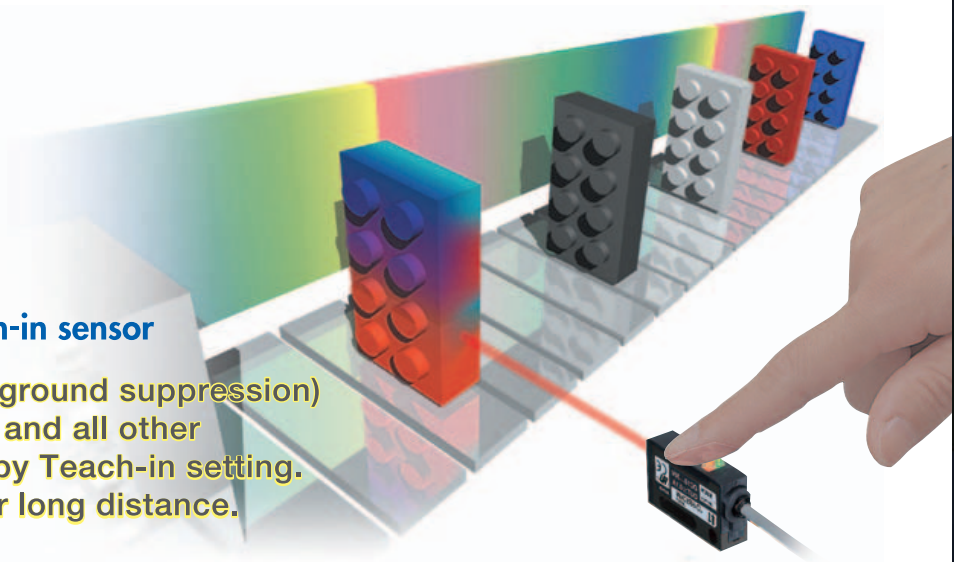
Cable type J2D-H100N, J2D-S100N, J2D-H100P, J2D-S100P  
M8 Connector type J2D-H100CN, J2D-S100CN, J2D-H100CP, J2D-S100CP

■ **Diffuse type (Red)**

Cable type J2D-H70N, J2D-S70N, J2D-H70P, J2D-S70P  
M8 Connector type J2D-H70CN, J2D-S70CN, J2D-H70CP, J2D-S70CP

■ **BGS**

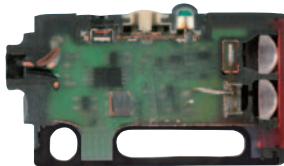
Cable type BGS-H15N, BGS-S15N, BGS-H15P, BGS-S15P  
M8 Connector type BGS-H15CN, BGS-S15CN, BGS-H15CP, BGS-S15CP



## Features

### Complete Water-proof

Fully epoxy injected inside the body.(IP67)  
Protection category 100G means tough and rigid mechanics.



### One push Teaching.

Microcomputer gives convenient and versatile way of teach-in setting. Remote Teach function is convenient to make sensitivity setting in remote.



### Narrow View Diffuse.

Narrow View with 1.5mm diameter spot at 100mm distance.  
Sharp angle of view as the ideal way of targeting tiny work piece through crevice of wall.



1 meter scanning distance with Diffuse reflection.



# Specifications J2series < Epoxy Infrared, 100G Shock / Water proof type >

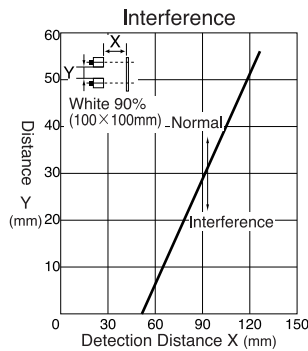
Model	Narrow View	Diffuse Reflection (IR)	Diffuse Reflection (Red)	BGS
Cable type NPN/PNP	J2D-H(S)10N/10P	J2D-H(S)100N/100P	J2D-H(S)70N/70P	BGS-H(S)15N/15P
M8 connector type NPN/PNP	J2D-H(S)10CN/10CP	J2D-H(S)100CN/100CP	J2D-H(S)70CN/70CP	BGS-H(S)15CN/15CP
(Remark)	*H = horizontal, S = vertical			
Sensing range	100m	1000m	700m	50-150mm
Power consumption				45mA Max
Response time				2.5m sec Max
Hysteresis				8% @ 100mm
Spot size	Ø1.5mm@100mm	Ø85mm@1000mm	Ø50mm@600mm	Ø10mm @ 150mm
Light source	Red	Infrared		Red
Supply voltage	10 to 30 V DC including 10% of ripple			
Control output	NPN or PNP Open collector, 100mA Max / 30V DC			
Sensitivity adjustment	Teach-in(Available Remote Teach-in)			
Shock resistance	100G(1,000m/S <sup>2</sup> ),X-Y-Z axis 3times			
Remarks	Connector is M8, both 4 pins and 3 pins are available			

## Common Specs J2series

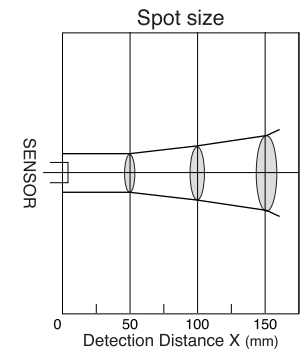
Type	All J2 series
Operation Mode	Light ON/Dark ON switchover
Ambient Temp	-25 up to 55 °C
Ambient humidity	35 to 95% RH
Storage conditions	-40 to 70 °C, 35 to 95% RH
Environment illuminance	Sunlight:10,000 lux max., Incandescent lamp:3,000 lux max.
Insulation resistance	Min. 20 M Ohm/DC500V
Conformity	JIS, CE, CЯU
(JIS C4525)	1 μ sec,300V
Feilen Test	Level 3
VDE protection	Class 3
Vibration resistance	10 50 55 Hz amplitude 1.5mm, X-Y-Z for 2 hours
Protection category	IP67
Housing Material	Case:PBT,Lens:PMMA

## Typical Characteristics(Examples)

### ●J2D-H(S)10N(P)



### ●BGS-H(S)15N(P)



## Dimensions

### ●Head ON type

Axis	A	B
BGS	9.25	6.9
Mark sensor	9.65	6

<4Pins Configuration>

### ●Side ON type

Axis	A	B
BGS	9.25	6.9
Mark sensor	9.65	6

<4Pins Configuration>

### ●Standard reflector V-61

### ●Anti-blur reflector V-60k

Unit : mm

\*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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