

Teach-In Type Mark Sensor

J3 series

200 micro sec response under Green LED.

■ NPN type

Cable type J3M-GH01N(head-on),J3M-GS01N(side-on)
M8 Connector type J3M-GH01CN(head-on),J3M-GS01CN(side-on)

■ PNP type

Cable type J3M-GH01P(head-on),J3M-GS01P(side-on)
M8 Connector type J3M-GH01CP(head-on),J3M-GS01CP(side-on)



Features

Fast Response 200 micro sec, 10±2mm sensing distance

A latest Green LED with physical composition of GlanN2.
It's best for mark sensing. (ex.J3M-GH01)



Narrow View Type

J3 series Fine spot type

Fine spot type under very narrow optical field.

■ Retro reflection(N for NPN, P for PNP, S for side-on, H for head-on)

Cable type J3R-H100N, J3R-H100P, J3R-S100N, J3R-S100P
M8 Connector type J3R-H100CN, J3R-H100CP, J3R-S100CN, J3R-S100CP

*All the Retro Type are equipped with Polarizing filter

■ BGS(N for NPN, P for PNP, S for side-on, H for head-on)

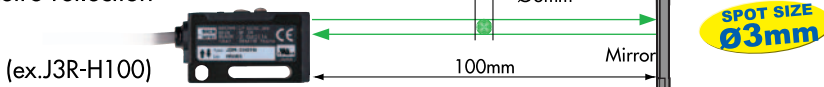
Cable type BGS-3JH05N, BGS-3JS05N, BGS-3JH05P, BGS-3JS05P
M8 Connector type BGS-3JH05CN, BGS-3JS05CN, BGS-3JH05CP, BGS-3JS05CP



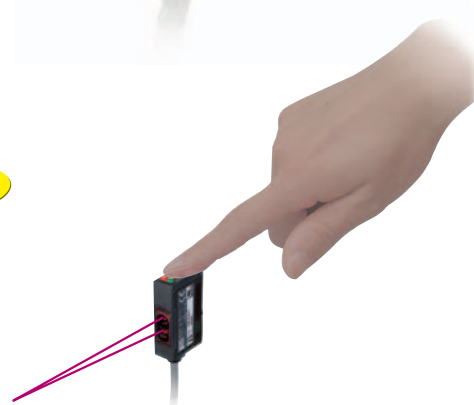
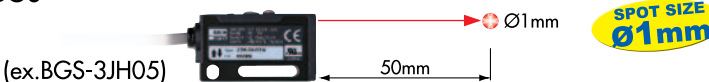
Features

Best for sensing fine object with Teach-in setting

Retro reflection



BGS



Specifications J3 series < Mark Sensor, Narrow view type, BGS type >

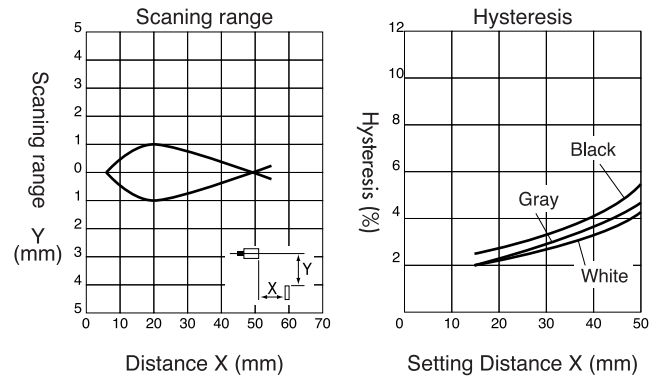
Model	Mark sensor	Retoro-Narrow View	BGS
Cable type NPN/PNP	J3M-GH(S)01N/01P	J3R-H(S)100N/100P	BGS-3JH(S)05N/05P
M8 connector type NPN/PNP	J3M-GH(S)01CN/01CP	J3R-H(S)100CN/100CP	BGS-3JH(S)05CN/05CP
(Remark)		*H = horizontal, S = vertical	
Sensing range	10+/-2m	0.05-1m	15-50mm/18%
Power consumption		40mA Max	
Response time		0.2m sec	0.7m sec
Hysteresis	N/A	N/A	5%
Min objectives	Appr 2 x 5mm @ 10mm	1mm @ 100mm	0.5mm round @ 50mm
Light source	Green	Red eliminating ball lens	Red

Common Specs J3 series

Type	All J3 series
Off delay	40m sec fix
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
Remote teach-in	Available
Shock resistance	100G(1,000m/S ²), X-Y-Z axis 3times
Remarks	Light ON/Dark ON switchover
Ambient Temp	-25 to 55 °C
Ambient humidity	35 to 95% RH
Storage conditions	-40 up to 70 °C, 35 - 95% RH
Environment illuminance	Sunlight:10,000lux max., Incandescent lamp:3,000 lux max.
Insulation resistance	Min. 20 M Ohm/DC500V
Conformity	JIS, CE, CRYU
(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)

●BGS-3JH(S)05N(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	11.7	6.9
Mark sensor	12.1	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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