



S3N

95B010900

S3N-PH-5-M03-OZ BGS LASER IOL M8
MINIATURE PHOTOELECTRIC SENSOR

OVERVIEW

- All models with visible and bright red emission
- LED and Laser emission models
- Multiple Background suppression functions
- Shiny and clear object detection
- Single, Double trimmer & Push Button models
- Diffuse proximity up to 100 cm
- Background suppression up to 800 mm (LED trimmer version)
- Polarized RRX 7 m (Red LED emission)
- Polarized RRX 12 m (Red Laser emission)
- Through-beam 20 m and Laser 30 m
- Connection with 2 m Cable or M8 connector
- Rugged IP67 Plastic miniature case
- M3 threaded holes on the front side with metal inserts
- State of the art IO-Link connectivity with extended Smart Tasks



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	130mm
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Sensitivity adjustment	Push Button TEACH-IN
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Minimum sensing distance (blind zone)	1mm
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Application

Function Principle	Background suppression
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Notes	(class 1 LASER) white target Kodak 90% 100 x 100mm
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Optic position	Radial 90°
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Functions	Background suppression
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Outputs

Output type	IO-Link
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Switching frequency	1,5kHz
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Response time	333µs
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Electrical data

Operating Voltage	10...30VDC
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No-Load supply current	≤ 35mA
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Load current	≤100mA
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Leakage current	≤ 400 µA
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Output voltage drop	≤2V@Iload=100mA
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Max ripple content	≤10%
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LED indicators	yellow OUTPUT LED all models, green Power ON LED and user interface interaction during teach on, blu LED IO-Link Activity
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Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LASER Red (650nm) class1
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes
Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
Contact resistance	500 Vac 1 min., between electronics and housing
0,1μF @Vmax - 1μF @Vmin	Yes

Mechanical data

Housing material	Plastic Polymer Fiber Glass reinforced
Connections	M8 plug 4pin
Active Head Material	PMMA
Storage temperature	- 25°C...+70°C
Plug connector material	Metal
shaft material	POM, PMMA
Diameter/Dimension	Cubic

Test/Approvals

Approvals	CE cULus CDRH 1 IO-Link
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EMC compatibility EN 60947-5-2

Shocks and vibrations 0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)

Generical Data

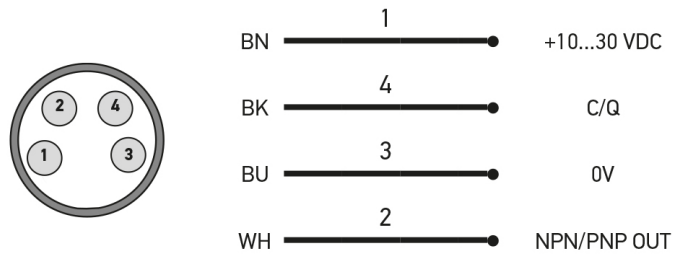
Dimensions 11x31x19 mm

Operating Temperature -25°C ... 55°C

Mechanical Protection IP67

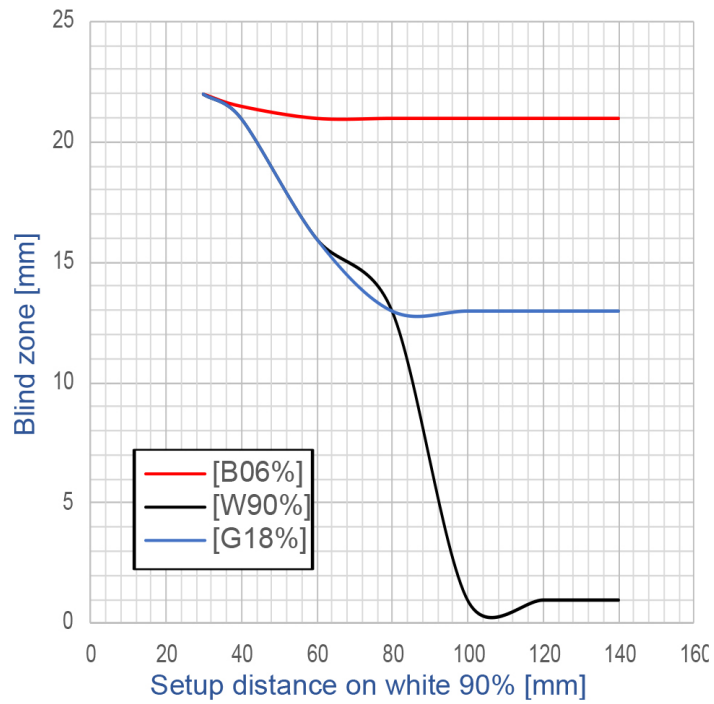
CONNECTIONS

Electrical diagram



OTHERS

Response curves



**Datasensing
S.r.l.**

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

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