



# S3N

## 95B010870

**S3N-PR-5-T53-OZ TRANSP PNP 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	2m
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Sensitivity adjustment	Push Button TEACH-IN
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Minimum sensing distance (blind zone)	0mm
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### Application

Function Principle	Polarized retroreflective for clear object
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Notes	On R7 reflector
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Optic position	Radial 90°
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Functions	Polarized retroreflective for clear object
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### Outputs

Output type	IO-Link
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Output Function	IO-Link
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Switching frequency	500Hz
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Response time	1ms
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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	≤ 300 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, blu LED IO-Link Activity
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED Red (635nm)
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

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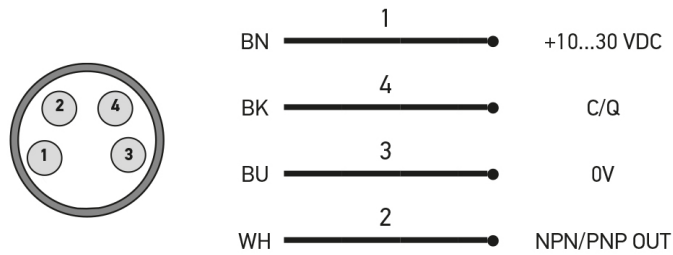
Approvals	CE cULus IO-Link
EMC compatibility	EN 60947-5-2
Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)

#### Generical Data

Dimensions	11x31x19 mm
Operating Temperature	-25°C ... 55°C
Mechanical Protection	IP67

## CONNECTIONS

### Electrical diagram



### Datasensing S.r.l.

Strada S.Caterina, 235  
41122 Modena (MO)

**date of  
printing**  
02/06/2026  
19:42:42

Tel. 059 420411  
Fax 059 253973  
E-mail  
[info@datasensing.com](mailto:info@datasensing.com)