



# 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
Sensitivity adjustment	Push Button TEACH-IN

Minimum sensing distance (blind zone)	0mm
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### Application

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

### Outputs

Output type	IO-Link
Output Function	IO-Link
Switching frequency	500Hz
Response time	1ms

### Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 35mA
Load current	≤100mA
Leakage current	≤ 300 μA
Output voltage drop	≤2V@Iload=100mA
Max ripple content	≤10%

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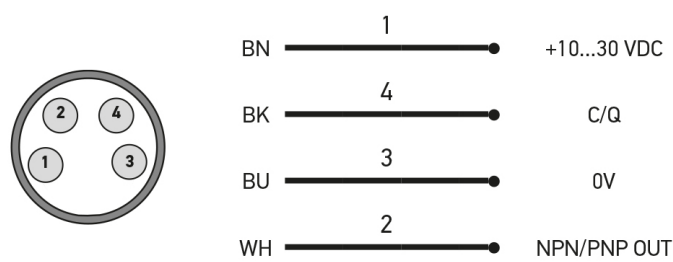
Approvals	CE cULus IO-Link
EMC compatibility	EN 60947-5-2
Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)

Generical Data

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

# CONNECTIONS

Eletrical diagram



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