



# S100

## 950810001

S100-PR-5-B10-OZ

THE UNIVERSAL MINIATURE PHOTOELECTRIC SENSORS

## OVERVIEW

- Two threaded front mounting holes
- Two slotted rear mounting holes
- Anti-tampering sensor (no adjustment)
- High speed high resolution RGB contrast sensor available
- Transparent object detection
- M8 connector and cable models
- PNP or NPN models with Light/Dark selection by wire
- Plastic housing, IP67 mechanical protection
- IO-Link COM2 communication protocol
- IO-Link V1.1.2 version
- IO-Link extended parametrization for monitoring and maintenance

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	5m
Sensitivity adjustment	Ext. Teach

### Application

Function Principle	Polarized retroreflective
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Description	Miniature universal multi-holes
Optic position	Radial 90°
Functions	Polarized retroreflective

#### Outputs

Output type	NPN / PNP IO Link
Output Function	IO Link
Switching frequency	1Khz
Response time	500μs

#### Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 30mA
Load current	≤100mA
Output voltage drop	≤2V@Iload=100mA
LED indicators	Yellow (status output)
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LED Red
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
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Contact resistance	500 Vac 1 min., between electronics and housing
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#### Mechanical data

Dimensions	12x32x20
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Housing Material	ABS
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Connections	M8 plug 4pin
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Active Head Material	PMMA
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Storage temperature	- 25°C...+70°C
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Material	
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Diameter/Dimension	Cubic
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#### Test/Approvals

Approvals	CE cULus
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Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
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#### Generical Data

Dimensions	12x32x20
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Operating Temperature	- 25°C...+ 55°C (Without freeze)
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Mechanical Protection	IP67
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**date of  
printing**  
04/04/2026  
06:19:50