



S100

950811240

S100-PR-5-FG00-NK

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	12m
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Sensitivity adjustment	n/a
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Application

Function Principle	Through beam emitter and receiver
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Description	Miniature universal multi-holes
Optic position	Radial 90°
Functions	Through beam emitter and receiver

Outputs

Output type	NPN L/D Selectable
Output Function	L/D Selectable
Switching frequency	500Hz
Response time	2ms

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); green (powerON)
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LED Infrared
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

Mechanical data

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

Test/Approvals

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

Generical Data

Dimensions	12x32x20
Operating Temperature	- 25°C...+ 55°C (Without freeze)
Mechanical Protection	IP67

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