



S3N

95B010044

S3N-PR-3-T51-N
MINIATURE PHOTOELECTRIC SENSOR

OVERVIEW

- Bright LED RED/IR and Safe Laser emission models
- Smart BGS and clear detection functions
- Single, Double trimmer & Push Button models
- Long distance detection models
- Very fast and very precise RGB Contrast sensor
- Cable, M8 connector, Pigtail M8 and M12 connection
- Rugged IP67 Plastic miniature case
- IO-Link with extended Smart Tasks

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	2 m
Sensitivity adjustment	1 turn trimmer
Minimum sensing distance (blind zone)	0 mm

Application

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

Outputs

Output type	NPN L/D Selectable
Output Function	L/D Selectable by trimmer
Switching frequency	1 kHz
Response time	500 μs

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, green STABILITY LED
Short-circuit protection	Yes
Reverse Polarity Protection	Yes

Emission	635 nm Red LED
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	11x31x19 mm
Housing material	Plastic Polymer Fiber Glass reinforced
Active Head Material	PMMA
Operating temperature	-25°C ... 55°C
Storage temperature	- 25°C...+70°C
Plug connector material	Metal
shaft material	POM, PMMA
Diameter/Dimension	Cubic
Mechanical protection	IP67

Test/Approvals

Approvals	CE cULus
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

Operating Temperature	-25°C ... 55°C
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Mechanical Protection	IP67
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Datasensing S.r.l.

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

**date of
printing**
10/08/2026
02:02:20