

S3N



95B010093

S3N-PH-4-FG01-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	30 m
Sensitivity adjustment	1 turn trimmer
Minimum sensing distance (blind zone)	0 mm

Application

Function Principle	Through beam emitter and receiver
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Notes	
Optic position	Radial 90°
Functions	Through beam emitter and receiver

Outputs

Output type	NPN L/D Selectable
Output Function	L/D Selectable by trimmer
Switching frequency	2 kHz
Response time	250 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 POWER ON
Short-circuit protection	Yes
Reverse Polarity Protection	Yes

Emission	650 nm Red Laser class 1
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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