

# S5N

## 952001021



**S5N-PA-5-B01-PP**

EXTENDED RANGE OF STANDARD "ONE FOR ALL"  
PHOTOELECTRIC TUBULAR M18 SENSORS

## OVERVIEW

- All optic functions
- Improved EMI immunity
- Improved ambient light immunity
- Improved laser safety level
- M18 flat plastic with universal mounting
- Short plastic housing models
- Available in M18 metal housing
- Stainless steel housing models
- Axial or radial optics, cable or connector
- Standard 4-wire NO-NC NPN or PNP output
- M12 pigtail models available
- IO-Link connectivity V1.1 with double channel

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	4m
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Sensitivity adjustment	Trimmer
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### Application

Function Principle	Polarized retroreflective
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Description	Tubular M18 - axial optic
Optic position	axial
Functions	Polarized retroreflective

#### Outputs

Output type	PNP NO+NC
Output Function	NO+NC
Switching frequency	1kHz
Response time	500 $\mu$ s

#### Electrical data

Operating Voltage	10...30VDC
No-Load supply current	$\leq 35$ mA
Load current	$\leq 100$ mA
Leakage current	$\leq 10$ $\mu$ A
Output voltage drop	$\leq 2$ V@Iload=100mA
LED indicators	yellow OUTPUT LED, green STABILITY LED
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
Contact resistance	500 Vac 1 min., between electronics and housing

#### Mechanical data

Dimensions	Ø18x67
Housing Material	Plastic - PBT / PMMA
Connections	M12 plug
Active Head Material	PMMA
Storage temperature	- 25°C...+70°C
Material	Plastic - PBT / PC
Diameter/Dimension	M18

#### 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)

#### Accessories

Supplied Accessories	nuts M18 x 1
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#### Generical Data

Dimensions	M18x67
Operating Temperature	- 25°C...+ 55°C (Without freeze)
Mechanical Protection	IP67

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