

S5N

952001061

S5N-PA-5-C01-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	700mm
Sensitivity adjustment	Trimmer

Application

Function Principle	Diffuse beam

Notes	white target Kodak 90% 100 x 100mm
Description	Tubular M18 - axial optic
Optic position	Axial
Functions	Diffuse beam

Outputs

Output type	PNP NO+NC
Output Function	NO+NC
Switching frequency	1kHz
Response time	500µs

Electrical data

Operating Voltage	10…30VDC
No-Load supply current	≤ 35 mA
Load current	≤100mA
Leakage current	≤10µA
Output voltage drop	≤2V@Iload=100mA
LED indicators	yellow OUTPUT LED, green STABILITY LED
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	Ø18x67
Material	Plastic - PBT / PC
Housing material	Plastic - PBT / PMMA
Connections	M12 plug
Active Head Material	PMMA
Storage temperature	- 25°C…+70°C
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

Generical Data

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

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