

S5N

952001601



S5N-PA-5-W03-NN

**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	12mm
--------------------------	------

Sensitivity adjustment	Teach-in
------------------------	----------

Application

Function Principle	Contrast mark detection
--------------------	-------------------------

Description	Tubular M18 - axial optic
Optic position	Axial
Functions	Contrast mark detection

Outputs	
Output type	NPN NO+NC
Output Function	NO+NC
Switching frequency	5kHz
Response time	100µs (5kHz)

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 White

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	Ø18x82
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	M18x82
Operating Temperature	- 25°C...+ 55°C (Without freeze)
Mechanical Protection	IP67

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
04:15:10