

S5N

952001431



S5N-PL-5-G00-XG

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 | 60m |
|--------------------------|-----|

|                        |     |
|------------------------|-----|
| Sensitivity adjustment | n/a |
|------------------------|-----|

Application

|                    |                      |
|--------------------|----------------------|
| Function Principle | Through beam emitter |
|--------------------|----------------------|

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| Description                      | Tubular M18 - axial optic                       |
| Optic position                   | Axial                                           |
| Functions                        | Through beam emitter                            |
| Outputs                          |                                                 |
| Output type                      | n/a                                             |
| Response time                    | n/a                                             |
| Electrical data                  |                                                 |
| Operating Voltage                | 10...30VDC                                      |
| No-Load supply current           | ≤ 35 mA                                         |
| Load current                     | ≤100mA                                          |
| Leakage current                  | ≤10μA                                           |
| LED indicators                   | green POWER LED                                 |
| Short-circuit protection         | YES                                             |
| Reverse Polarity Protection      | Yes                                             |
| Emission                         | LASER 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           | Ø18x57               |
| 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            | M18x57                           |
| Operating Temperature | - 10°C...+ 50°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](mailto:info@datasensing.com)

**date of  
printing**  
10/08/2026  
04:36:03