



# SS-SP

## SS2/0N-0E

Photo.M18,NPN-NO/NC,M12 plug,Diffuse  
M18 DC WITH LATERAL ADJUSTMENT

## OVERVIEW

- Models with side sens. adjustment on axial and right angle optic
- LO/DO selectable output
- ATEX models, cat. 3, available on request
- LED status indicator for all versions
- Complete protection against electrical damages
- IP67 protection degree for all models
- Approvals: CE and cULus listed



## TECHNICAL FEATURES

### Detection properties

|                          |                |
|--------------------------|----------------|
| Nominal sensing distance | 100mm          |
| Thermal drift of Sr      | $\leq 10\%$ Sr |
| Repeat Accuracy          | 5%             |
| Sensitivity adjustment   | No             |

### Application

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| Function Principle             | Diffuse reflection (short distance, $\leq 200\text{mm}$ ) |
| Notes                          | white target Kodak 90% 100 x 100mm                        |
| Optic position                 | Axial                                                     |
| Outputs                        |                                                           |
| Output type                    | NPN L/D Selectable                                        |
| Output Function                | L/D Selectable                                            |
| Switching frequency            | 250Hz                                                     |
| Response time                  | 2ms                                                       |
| Electrical data                |                                                           |
| Operating Voltage              | 10...30VDC                                                |
| No-Load supply current         | $\leq 30\text{mA}$                                        |
| Load current                   | $\leq 100\text{mA}$                                       |
| Leakage current                | $\leq 10\mu\text{A}$                                      |
| Output voltage drop            | $\leq 1,2\text{V}@I_{\text{load}}=100\text{mA}$           |
| Max ripple content             | $\leq 10\%$                                               |
| LED indicators                 | Yellow (status output)                                    |
| Time delay before availability | $\leq 200\text{ms}$                                       |
| Short-circuit protection       | Yes                                                       |

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| Reverse Polarity Protection      | Yes                                              |
| Emission                         | LED Infrared (880nm)                             |
| Interference to external light   | 3000lux (incandescent lamp), 10000lux (sunlight) |
| Impulsive Overvoltage Protection | Yes                                              |

**Mechanical data**

|                       |                                   |
|-----------------------|-----------------------------------|
| Dimensions            | M18 x 1 /L =78mm                  |
| Housing material      | PBT / PC plug                     |
| Weight                | 30g                               |
| Connections           | M12 plug                          |
| Active Head Material  | PMMA                              |
| Tightening torque     | 1Nm                               |
| Operating temperature | - 25°C...+ 70° C (Without freeze) |
| Diameter/Dimension    | M18                               |

**Test/Approvals**

|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE cULus                                       |
| EMC compatibility     | EN 60947-5-2                                   |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |
| Degree of protection  | IP67                                           |

## Accessories

### Supplied Accessories

nuts M18 x 1

## Generical Data

### Dimensions

M18 x 1 /L =78mm

### Operating Temperature

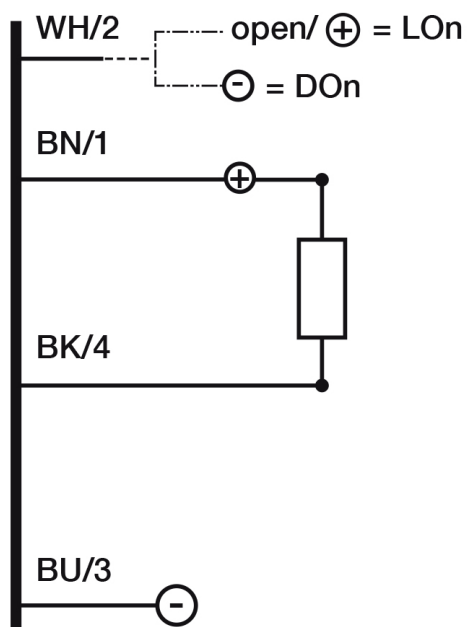
- 25°C...+ 70°C (Without freeze)

### Mechanical Protection

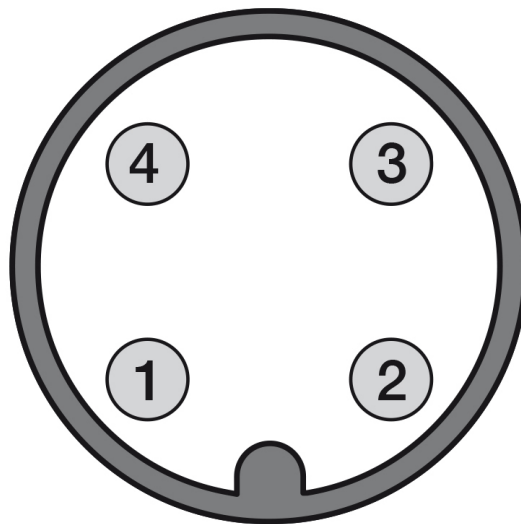
IP67

# CONNECTIONS

Eletrical diagram

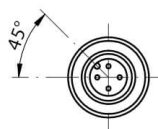
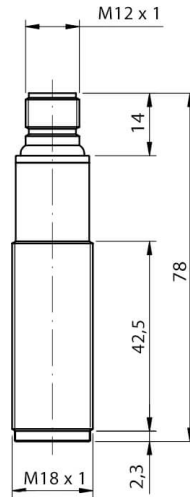


Connector

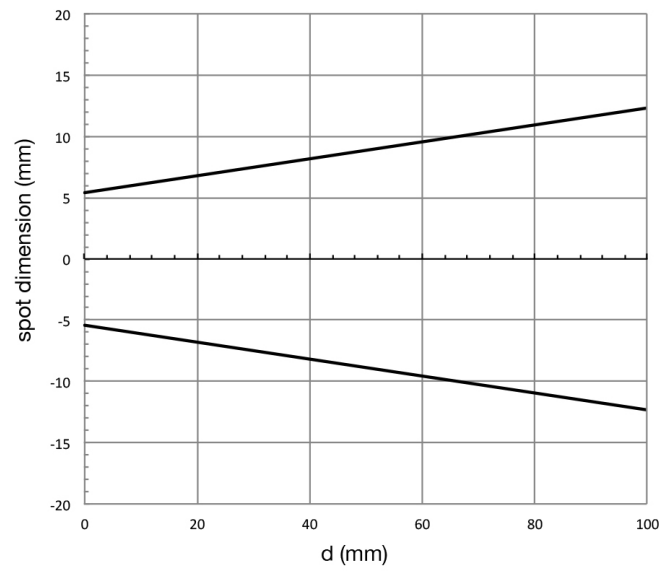


## OTHERS

### Dimensions



### Response curves



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