# SS-SP

## SS0/0N-1E

**Photo.M18,NPN-NO/NC,M12 plug,BGS**

**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 | 50mm |
| Thermal drift of Sr | ≤10% Sr |
| Repeat Accuracy | 5% |
| minimum detectable object | 1mm |
| Sensitivity adjustment | No |

| | |
|---|---|
| **Application** | |
| Function Principle | Blackground suppression |
| 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 | 1Khz |
| Response time | 500µs |
| **Electrical data** | |
| Operating Voltage | 10…30VDC |
| No-Load supply current | ≤ 30mA |
| Load current | ≤100mA |
| Leakage current | ≤10µA |
| Output voltage drop | ≤1,2V@Iload=100mA |
| Max ripple content | ≤10% |
| LED indicators | Yellow (status output) |
| Time delay before availability | ≤200ms |

| | |
|---|---|
| Short-circuit protection | Yes |
| Reverse Polarity Protection | Yes |
| Emission | LED Red (660nm) |
| Interference to external light | 3000lux (incandescent lamp), 10000lux (sunlight) |
| Impulsive Overvoltage Protection | Yes |

Mechanical data

| | |
|---|---|
| Dimensions | M18 x 1 /L =78mm |
| Housing material | Nickel plated brass / PC plug |
| Weight | 100g |
| Connections | M12 plug |
| Active Head Material | PMMA |
| Tightening torque | 25Nm |
| 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

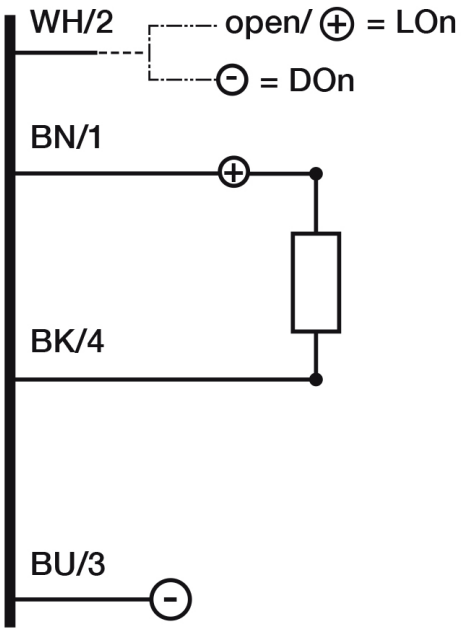
| | |
|---|---|
| Supplied Accessories | nuts M18 x 1 |

Generical Data

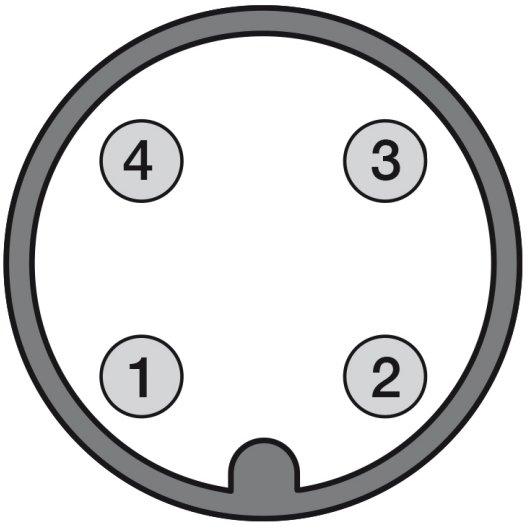
| | |
|---|---|
| Dimensions | M18 x 1 /L =78mm |
| Operating Temperature | - 25°C…+ 70°C (Without freeze) |
| Mechanical Protection | IP67 |

# CONNECTIONS

Eletrical diagram

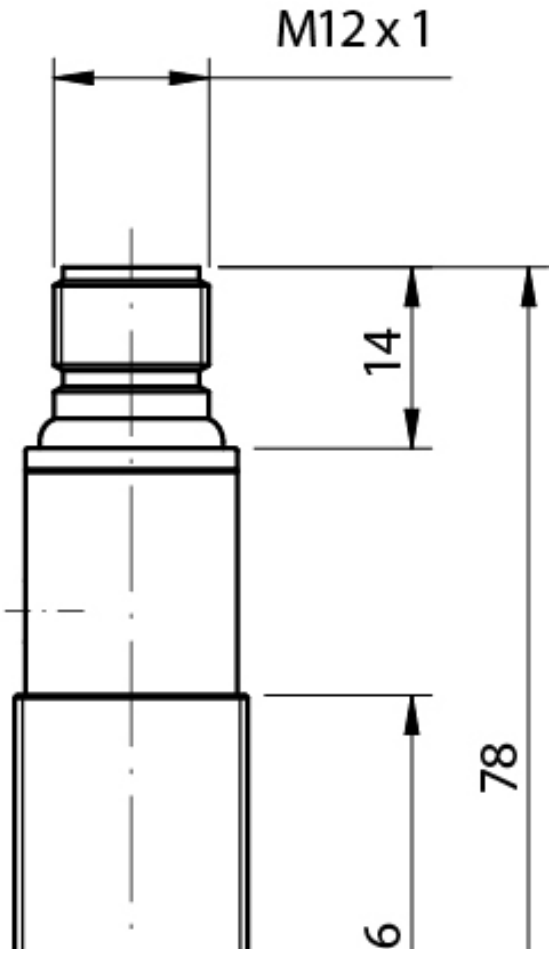


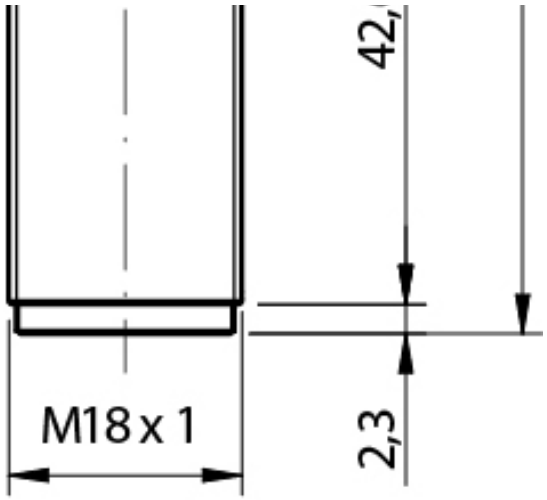

Connector

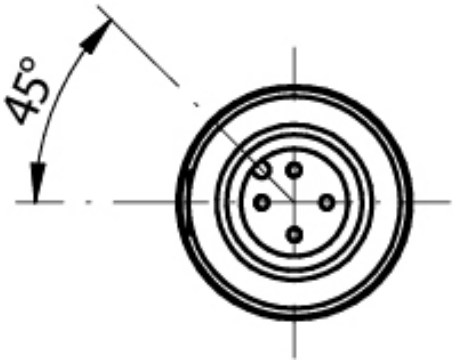



# OTHERS

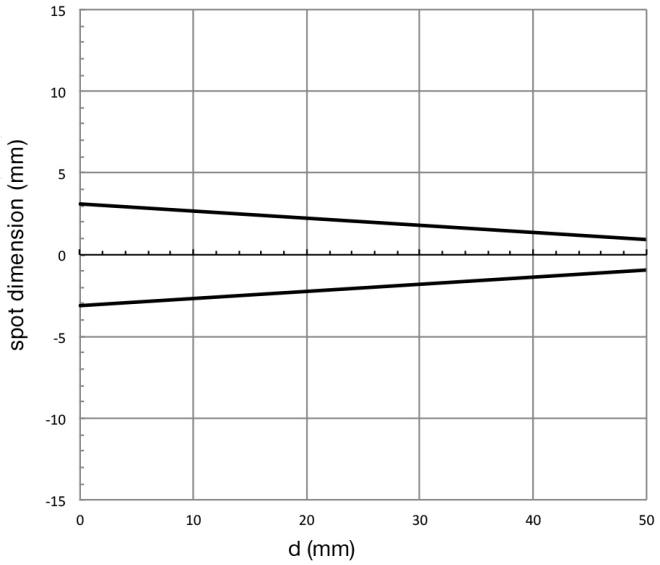
Dimensions






Response curves



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