



**SSF**

**SSF/0N-0E**

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

**M18 PHOTOELECTRIC SENSORS FOR OPTICAL FIBRES**

# OVERVIEW

- Models with sensitivity adjustment by teach-in button
- With range of optical fibres are available
- LED status indicator for all versions
- Complete protection against electrical damages
- Approvals: CE and cULus listed

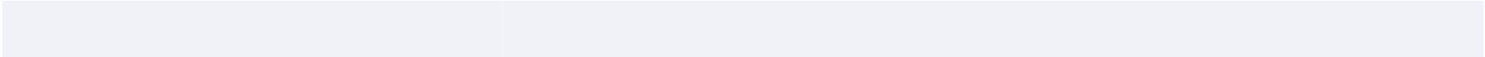


# TECHNICAL FEATURES

Detection properties

|                          |                                  |
|--------------------------|----------------------------------|
| Nominal sensing distance | Depending on optical fibres used |
| Thermal drift of Sr      | 10 % Sr                          |
| Repeat Accuracy          | 5%                               |
| Sensitivity adjustment   | Teach-in                         |

Application



|                                |                        |
|--------------------------------|------------------------|
| Function Principle             | Optic fiber amplifier  |
| Optic position                 | Axial                  |
| Outputs                        |                        |
| Output type                    | NPN L/D Selectable     |
| Output Function                | L/D Selectable         |
| Switching frequency            | 800Hz                  |
| Response time                  | 625μs                  |
| Electrical data                |                        |
| Operating Voltage              | 10...30VDC             |
| No-Load supply current         | ≤ 20mA                 |
| Load current                   | ≤100mA                 |
| Leakage current                | ≤ 10 μA                |
| Output voltage drop            | ≤2V@Iload=100mA        |
| Max ripple content             | ≤10%                   |
| LED indicators                 | Yellow (output status) |
| Time delay before availability | ≤200ms                 |
| Short-circuit protection       | Yes                    |
| Reverse Polarity Protection    | Yes                    |
| Emission                       | LED Red (660nm)        |

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| Interference to external light   | 3.000lux (incandescent lamp), 10.000lux (sunlight) |
| Impulsive Overvoltage Protection | Yes                                                |

Mechanical data

|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | M18 x 1 / L = 90mm               |
| Housing material      | PBT / PC plug                    |
| Weight                | 30 g                             |
| Connections           | M12 plug                         |
| Active Head Material  | Depending on optical fibres      |
| 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 |
| Degree of protection | IP67         |

Accessories

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

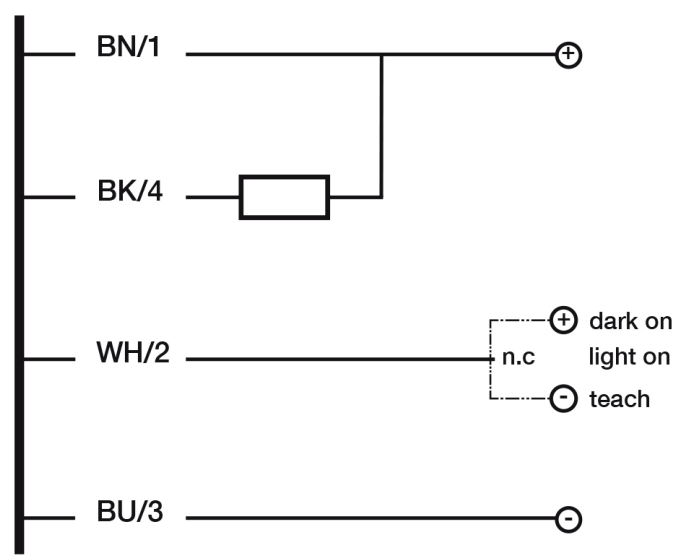
Generical Data

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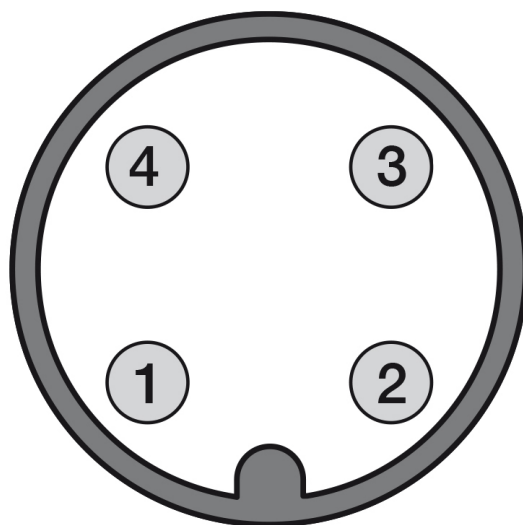
|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | M18 x 1 / L = 90mm               |
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP67                             |

# CONNECTIONS

Eletrical diagram

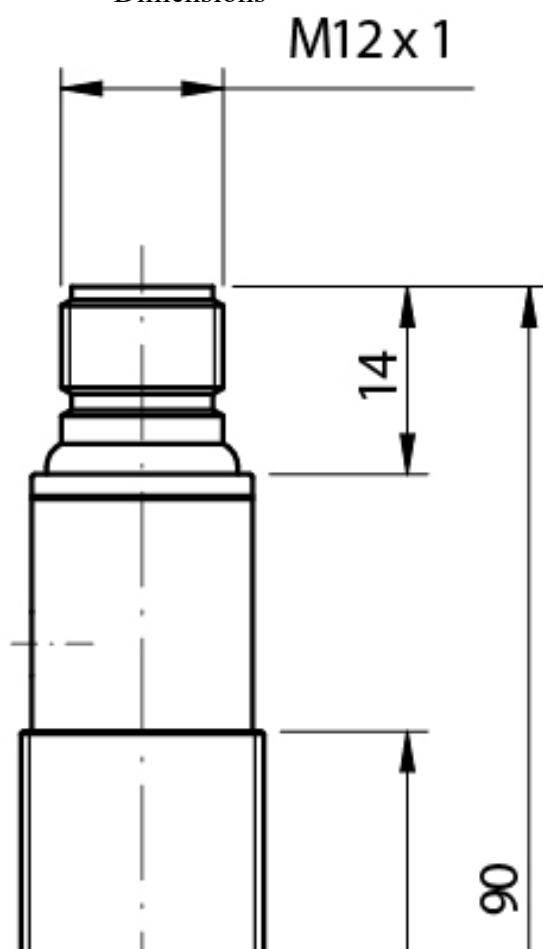


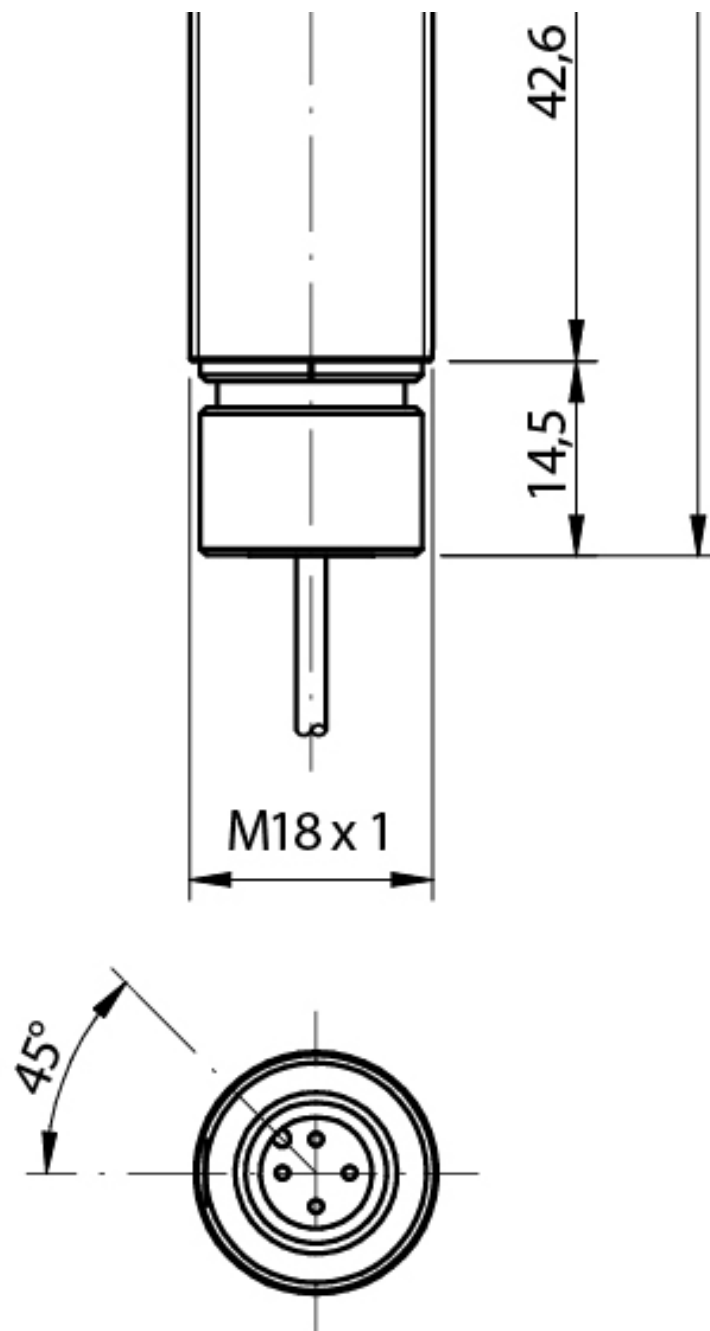
Connector



## OTHERS

Dimensions





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