



FA

FAID/BP-3A

Photo.M18,PNP-NO+NC,Cable,Receiver  
M18 PHOTOELECTRIC SENSORS DC

## OVERVIEW

- Complete range of M18 sensors with 10...30 Vdc power supply
- Axial and radial optic with flat surface
- Retro-reflective models for transparent objects detection, with red emission IP67 protection degree
- Metallic or plastic housing
- Sensitivity adjustment available for all models
- Total protection against any type of electric damages
- Approvals: CE and cULus listed



## TECHNICAL FEATURES

### Detection properties

|                          |                |
|--------------------------|----------------|
| Nominal sensing distance | 15m            |
| Thermal drift of Sr      | $\leq 10\%$ Sr |
| Repeat Accuracy          | 5%             |
| Sensitivity adjustment   | Trimmer        |

### Application

|                    |            |
|--------------------|------------|
| Function Principle | Receiver   |
| Emitter/Receiver   | Receiver   |
| Optic position     | Radial 90° |

Outputs

|                     |           |
|---------------------|-----------|
| Output type         | PNP NO+NC |
| Output Function     | NO+NC     |
| Switching frequency | 250Hz     |
| Response time       | 2ms       |

Electrical data

|                                |                                        |
|--------------------------------|----------------------------------------|
| Operating Voltage              | 10...30VDC                             |
| No-Load supply current         | ≤ 25mA                                 |
| Load current                   | ≤100mA                                 |
| Leakage current                | ≤10μA                                  |
| Output voltage drop            | ≤2V@Iload=100mA                        |
| Max ripple content             | ≤10%                                   |
| LED indicators                 | Yellow (Lon) or output status Lo/Do    |
| Time delay before availability | ≤200ms                                 |
| Short-circuit protection       | Short circuit (autoreset), Overvoltage |

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Reverse Polarity Protection    | Polarity inversal, Impulsive voltage             |
| Emission                       | LED Infrared (880nm)                             |
| Interference to external light | 5000lux (incandescent lamp), 10000lux (sunlight) |

**Mechanical data**

|                       |                                     |
|-----------------------|-------------------------------------|
| Dimensions            | M18 x 1/L=78,5mm                    |
| Housing material      | Nickel plated brass / PC cable exit |
| Weight                | 130g                                |
| Connections           | 2m PVC cable                        |
| Active Head Material  | PC                                  |
| 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                                           |

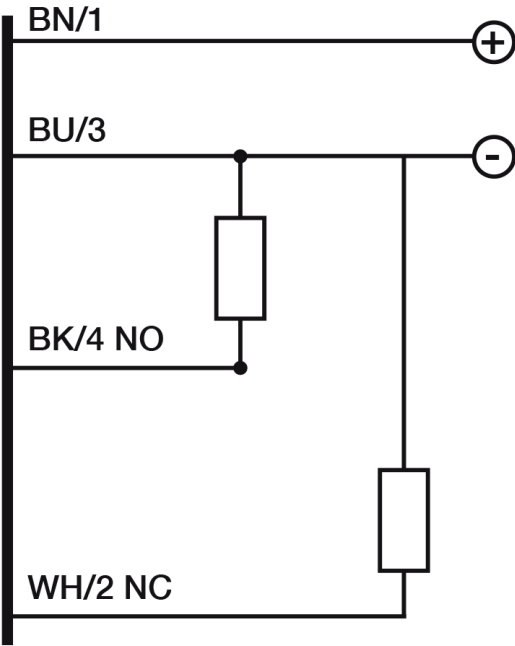
**Accessories**

|  |
|--|
|  |
|--|

|                       |                                  |
|-----------------------|----------------------------------|
| Supplied Accessories  | nuts M18 x 1, screwdriver        |
| Generical Data        |                                  |
| Dimensions            | M18 x 1/L=78,5mm                 |
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP67                             |

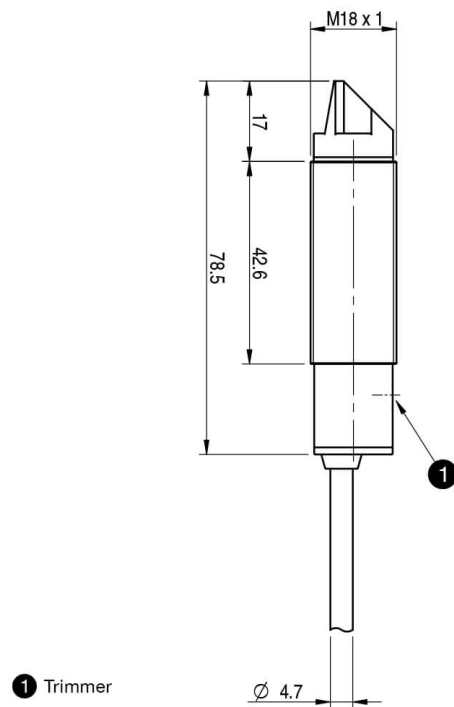
# CONNECTIONS

Eletrical diagram

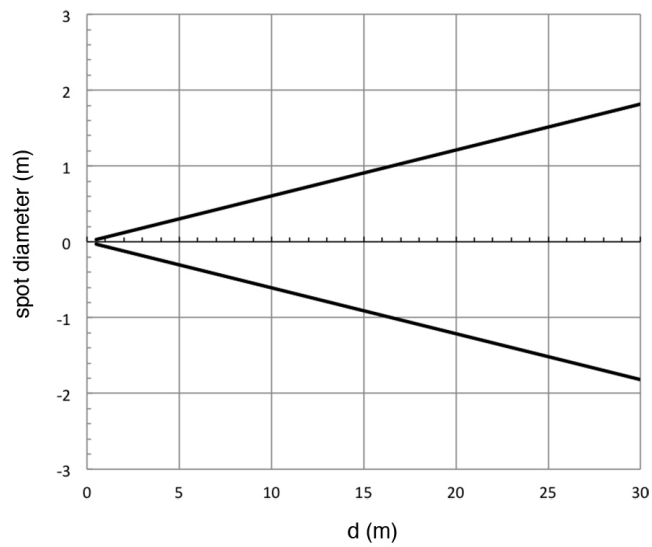


# OTHERS

Dimensions



Response curves



## 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  
02:09:23