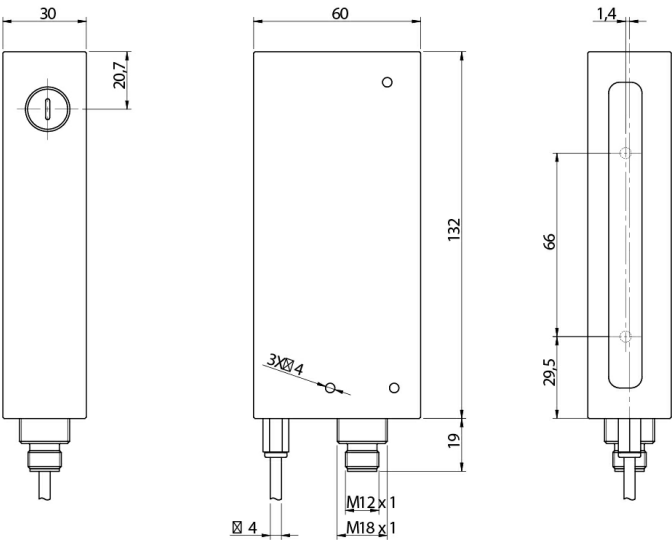


Indicative image



**HIGH RESOLUTION CUBIC HOUSING AREA SENSOR**

- Controlled heightt 70 mm
- Operating distance up to 2 m
- Microprocessor based circuit
- Sensitivity adjustment
- Strong cubic housing
- Special version with metallic enclosure for high-duty use
- Protection degree IP67
- Complete protection against electrical damages



**Detection properties**

|                           |              |
|---------------------------|--------------|
| Nominal sensing distance  | 300mm ... 2m |
| Thermal drift of Sr       | ≤10%         |
| Beams space               | 6mm          |
| controlled height         | 70mm         |
| minimum detectable object | Ø 5mm        |
| number of rays            | 12           |

**Application**

|                    |          |
|--------------------|----------|
| Function Principle | Receiver |
|--------------------|----------|

**Outputs**

|                     |       |
|---------------------|-------|
| Output type         | PNP   |
| Output Function     | NO/NC |
| Switching frequency | 10ms  |

**Electrical data**

|                   |            |
|-------------------|------------|
| Operating Voltage | 12 – 24Vdc |
|-------------------|------------|

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| No-Load supply current           | 50mA                                                          |
| Load current                     | ≤100mA                                                        |
| Leakage current                  | 10μA                                                          |
| Output voltage drop              | ≤1.2V IL =100 mA                                              |
| Max ripple content               | ≤ 10%                                                         |
| LED indicators                   | green (supply), red (alignment), yellow (output state)        |
| Time delay before availability   | 500ms                                                         |
| Short-circuit protection         | Yes (auto reset)                                              |
| Reverse Polarity Protection      | Yes                                                           |
| Emission                         | Infrared (880 nm)                                             |
| Interference to external light   | 1.500 lux max. (incandescent lamp), 4.500 lux max. (sunlight) |
| Impulsive Overvoltage Protection | Yes                                                           |

**Mechanical data**

|                       |                                |
|-----------------------|--------------------------------|
| Dimensions            | 60mm x 132mm x 30mm            |
| Weight                | 260 ... 300g                   |
| Housing Material      | PBT                            |
| Connections           | M12 plug                       |
| Active Head Material  | PC                             |
| Tightening torque     | 25Nm                           |
| Operating temperature | -25°C...+50°C (without freeze) |
| Storage temperature   | -40°C...+80°C                  |

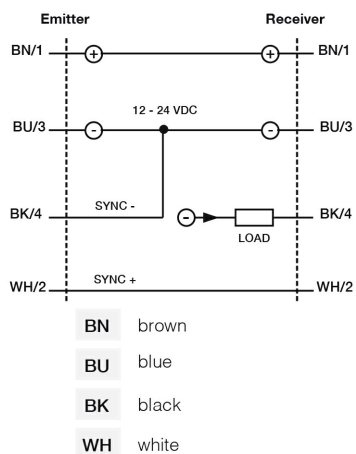
**Test/Approvals**

|                       |                  |
|-----------------------|------------------|
| Approvals             | CE               |
| EMC compatibility     | IEC 60947-5-2    |
| Shocks and vibrations | IEC EN 60947-5-2 |
| Degree of protection  | IP67             |

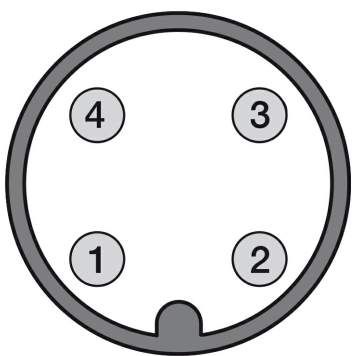
**Generical Data**

|                       |                                |
|-----------------------|--------------------------------|
| Dimensions            | 60mm x 132mm x 30mm            |
| Operating Temperature | -25°C...+50°C (without freeze) |
| Mechanical Protection | IP67                           |

# ELECTRICAL DIAGRAMS OF THE CONNECTIONS



# CONNECTOR



## Datasensing S.r.l.

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