



**DG**

**DGR/LN-3D**

**Photo.d10,NPN-LO,Cable,Receiver**  
**Ø 10 MM MINIATURIZED THROUGH-BEAM SENSORS**

## OVERVIEW

- Ø 10 mm plastic housing 41 mm length
- Ø 13 mm hole irreversible spring latch fixing
- LED status indicator receiver only
- Complete protection against electrical damages
- IP67 protection degree
- Nominal sensing distance (Sn): 2 m ExG. = 4
- Supply voltage 15...37 Vdc (10...30 Vdc for EA version)
- Approvals: CE



## TECHNICAL FEATURES

### Detection properties

|                          |        |
|--------------------------|--------|
| Nominal sensing distance | 2m     |
| Thermal drift of Sr      | ≤10%Sr |
| Sensitivity adjustment   | No     |

### Application

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

|                  |          |
|------------------|----------|
|                  |          |
| Notes            | (EG=4)   |
| Emitter/Receiver | Receiver |
| Optic position   | Axial    |

Outputs

|                     |         |
|---------------------|---------|
| Output type         | NPN Lon |
| Output Function     | Lon     |
| Switching frequency | 40Hz    |
| Response time       | 1,25ms  |

Electrical data

|                                |                        |
|--------------------------------|------------------------|
| Operating Voltage              | 15...37VDC             |
| No-Load supply current         | ≤ 10mA                 |
| Load current                   | ≤30mA                  |
| Leakage current                | ≤10μA                  |
| Output voltage drop            | ≤2V@Iload=30mA         |
| Max ripple content             | ≤10%                   |
| LED indicators                 | Yellow (Output status) |
| Time delay before availability | ≤ 100ms                |
| Short-circuit protection       | Yes                    |

|                                  |           |
|----------------------------------|-----------|
| Reverse Polarity Protection      | Yes       |
| Interference to external light   | 20.000lux |
| Impulsive Overvoltage Protection | Yes       |

**Mechanical data**

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Dimensions            | M10x1/L=41mm                                  |
| Housing material      | PC housing / POM fixing ring / ABS cable exit |
| Weight                | 210g                                          |
| Connections           | 7m PVC cable                                  |
| Active Head Material  | PC                                            |
| Operating temperature | - 25°C...+ 70° C (without freeze)             |
| Diameter/Dimension    | Ø 10mm                                        |

**Test/Approvals**

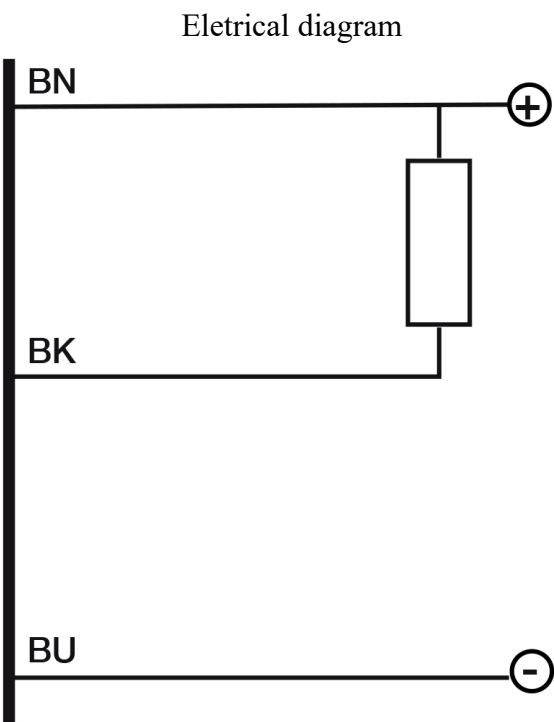
|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE                                             |
| EMC compatibility     | EN 60947-5-3                                   |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |
| Degree of protection  | IP67                                           |

**Generical Data**

|            |              |
|------------|--------------|
| Dimensions | M10x1/L=41mm |
|            |              |

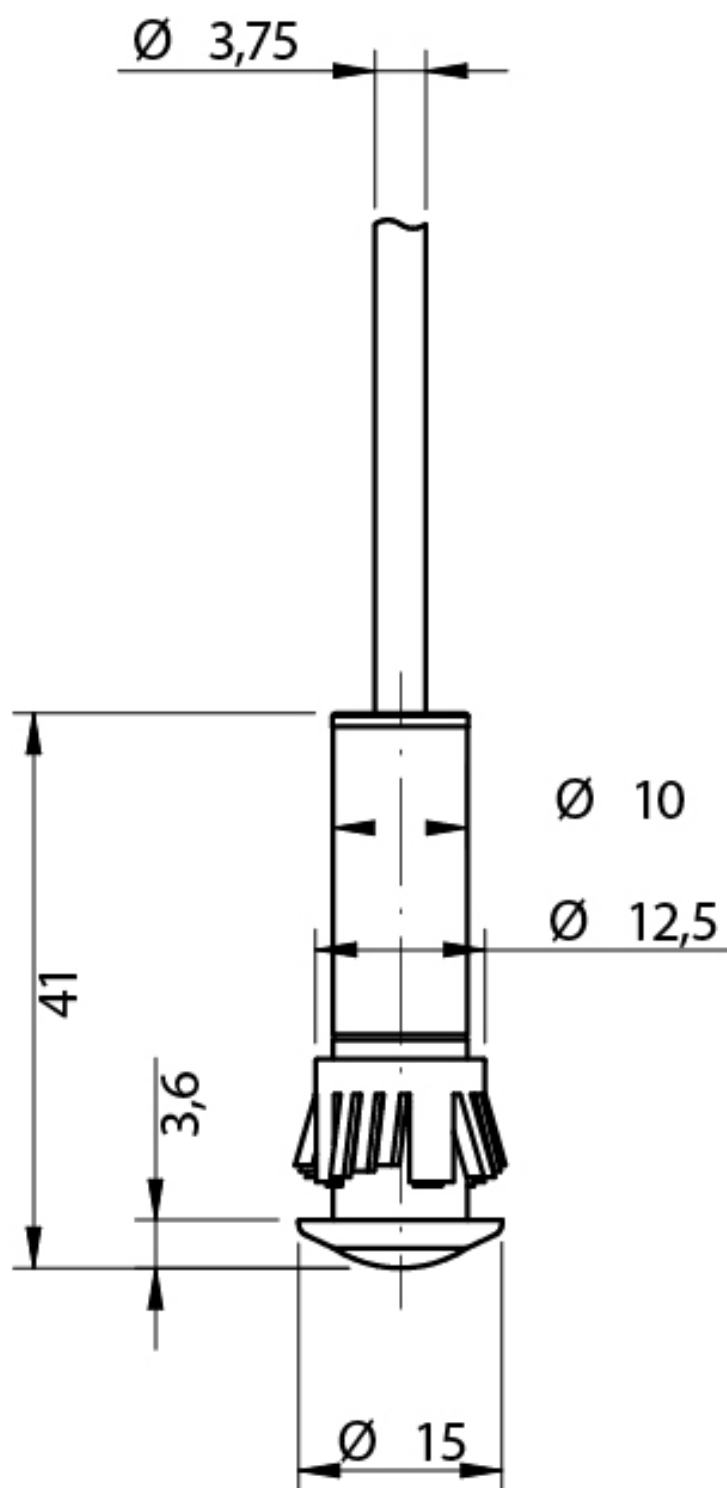
|                       |                                  |
|-----------------------|----------------------------------|
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP67                             |

# CONNECTIONS

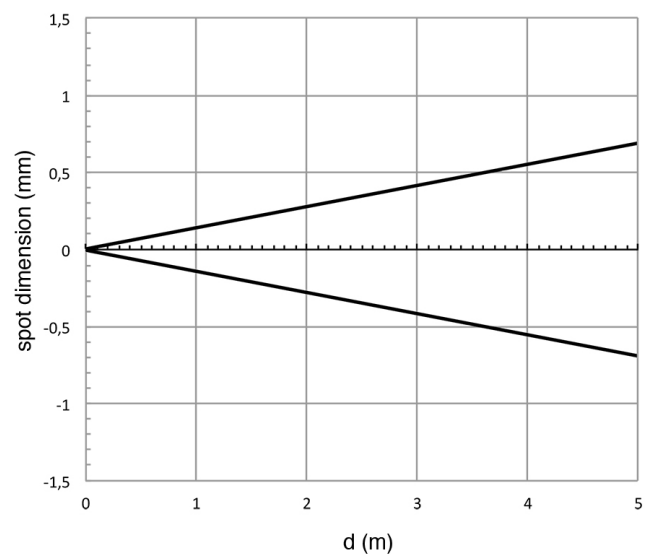


# OTHERS

Dimensions



Response curves



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