

# DG

# DGR/DN-3A

**Photo.d10,NPN-DO,Cable,Receiver**

**Ø 10 MM MINIATURIZED THROUGH-BEAM SENSORS**

## OVERVIEW

- Ø 10 mm plastic housing 41 mm length
- Ø 13 mm hole irreversibile 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

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 Don |
| Output Function | Don |
| 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 | 5m 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 |

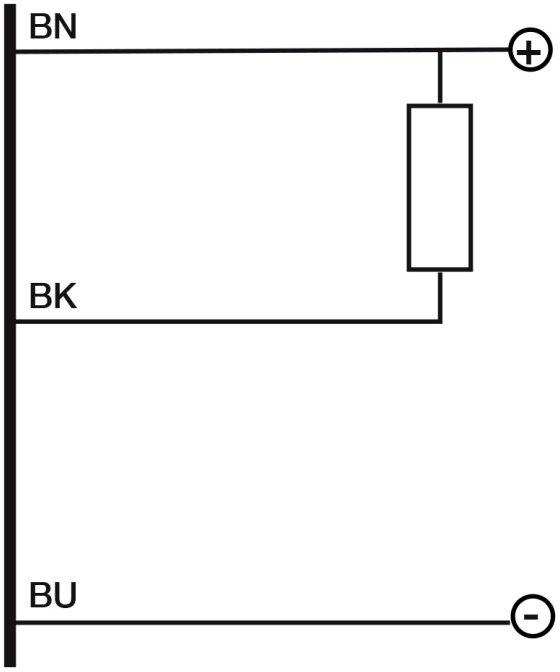
Generical Data

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

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

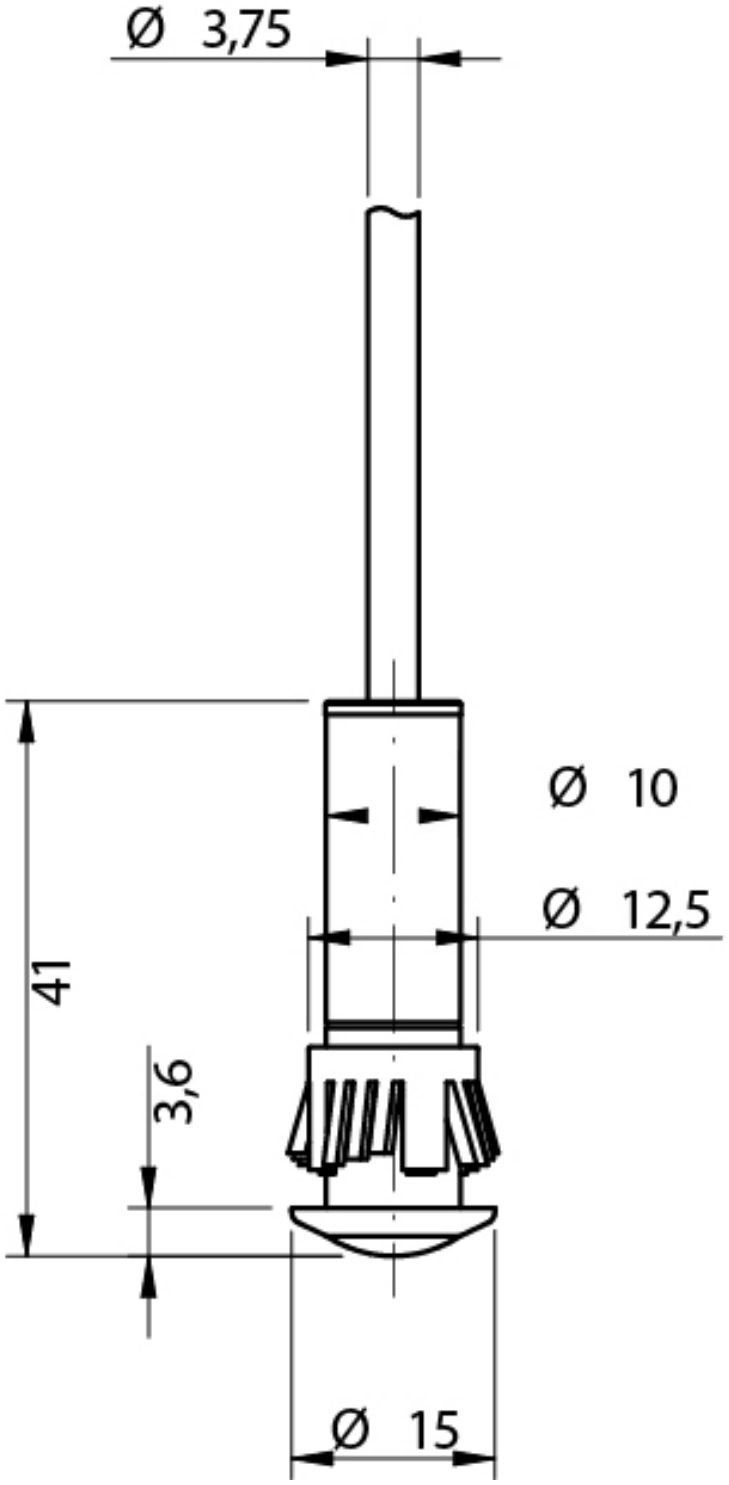
# CONNECTIONS

Eletrical diagram

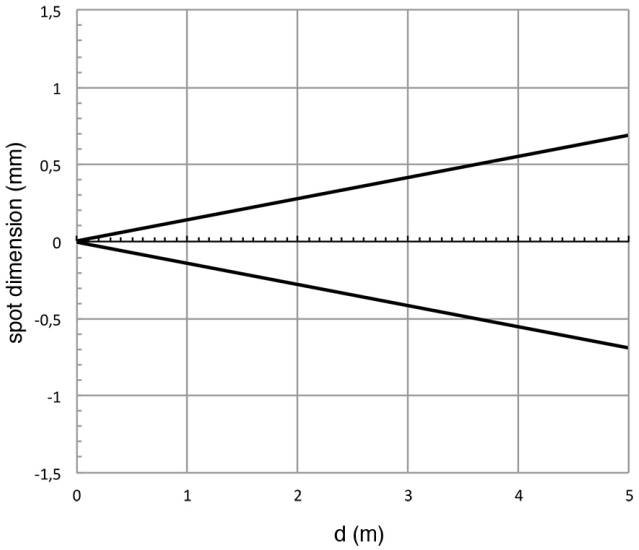



# OTHERS

Dimensions




Response curves




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