

# HE

# HER/AN-4A

**Photo.M8,NPN-NO,Cable,Receiver**

**M8 MINIATURIZED THROUGH-BEAM SENSORS DC**

# OVERVIEW

- M8 through beam models with high switching frequency
- LED status indicator for all models
- Complete protection against electrical damages
- IP67 protection degree
- Stainless steel housing
- Supply voltage 10...30 Vdc
- Approvals: CE

CE

# TECHNICAL FEATURES

Detection properties

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

Application

| | |
|---|---|
| Function Principle | Receiver |
| Notes | (EG=2) |
| Emitter/Receiver | Receiver |
| Optic position | Axial |

Outputs

| | |
|---|---|
| Output type | NPN NO |
| Output Function | NO |
| Switching frequency | 1Khz |
| Response time | 500μs |

Electrical data

| | |
|---|---|
| Operating Voltage | 10…30VDC |
| No-Load supply current | ≤45mA |
| Load current | ≤100mA |
| Leakage current | ≤10μA |
| Output voltage drop | ≤2V@Iload=100mA |
| Max ripple content | ≤10% |
| LED indicators | Yellow (status output) |
| Time delay before availability | ≤200ms |

| | |
|---|---|
| Short-circuit protection | Yes |
| Reverse Polarity Protection | Yes |
| Emission | LED Infrared (880nm) |
| Interference to external light | 3.000 lux (incandescent lamp), 5.000 lux (sunlight) |
| Impulsive Overvoltage Protection | Yes |

Mechanical data

| | |
|---|---|
| Dimensions | M8x0,75/L=49mm |
| Housing material | Stainless Stee AISI 303l / PA12 cable exit |
| Weight | 40g |
| Connections | 2m PVC cable |
| Active Head Material | PMMA |
| Operating temperature | - 25°C…+ 50° C (without freeze) |
| Diameter/Dimension | M8 |

Test/Approvals

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

Accessories

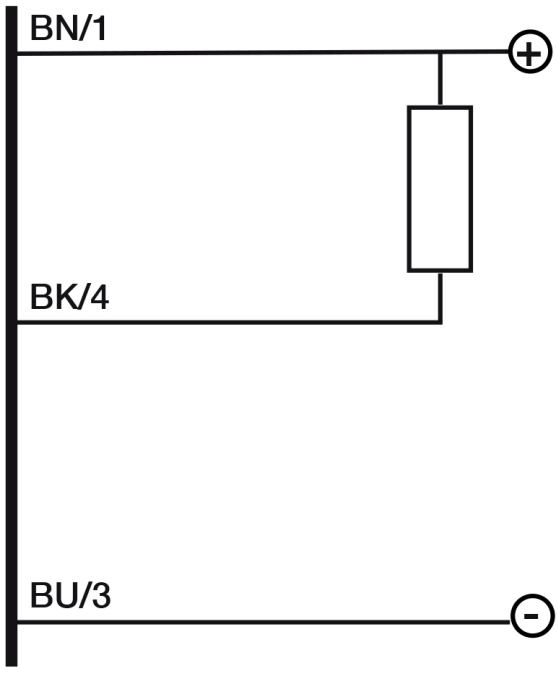
| | |
|---|---|
| Supplied Accessories | nuts M8 x 0,75 |

Generical Data

| | |
|---|---|
| Dimensions | M8x0,75/L=49mm |
| Operating Temperature | - 25°C…+ 70°C (Without freeze) |
| Mechanical Protection | IP67 |

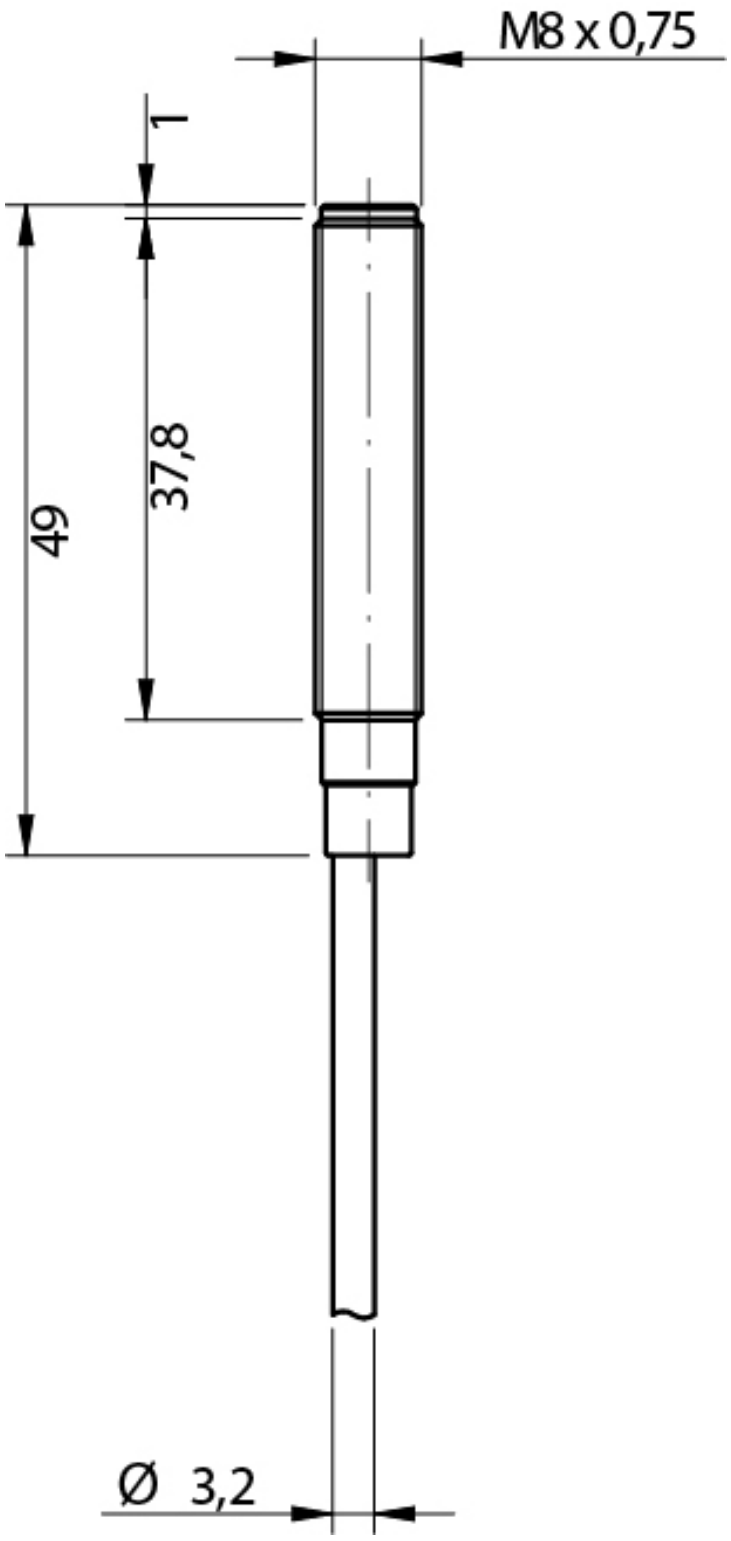
# CONNECTIONS

Eletrical diagram

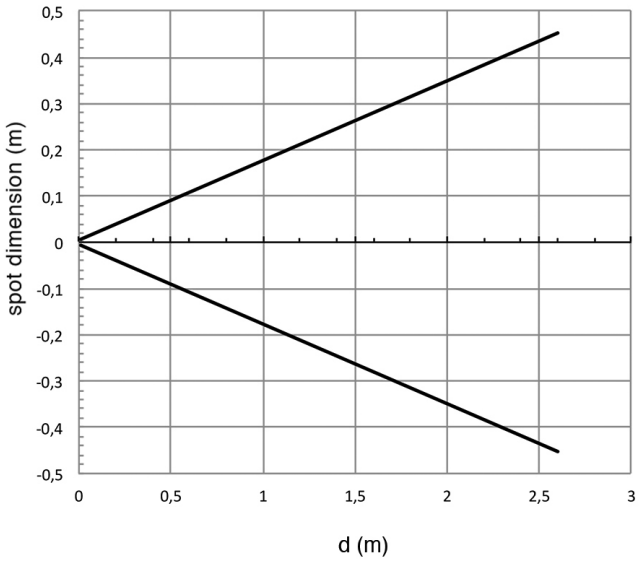



# OTHERS

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

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