



# HE

## HER/AN-3F

Photo.M8,NPN-NO,M8 plug,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



## TECHNICAL FEATURES

### Detection properties

|                          |               |
|--------------------------|---------------|
| Nominal sensing distance | 1m            |
| Thermal drift of Sr      | $\leq 10\%Sr$ |
| Repeat Accuracy          | $\leq 10\%$   |
| Sensitivity adjustment   | No            |

### Application

|                    |          |
|--------------------|----------|
| Function Principle | Receiver |
| Emitter/Receiver   | Receiver |
| Optic position     | Axial    |

Outputs

|                     |        |
|---------------------|--------|
| Output type         | NPN NO |
| Output Function     | NO     |
| Switching frequency | 10Khz  |
| Response time       | 50 μs  |

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 Steel AISI 303          |
| Weight                | 15g                               |
| Connections           | M8 plug 3pin                      |
| 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**

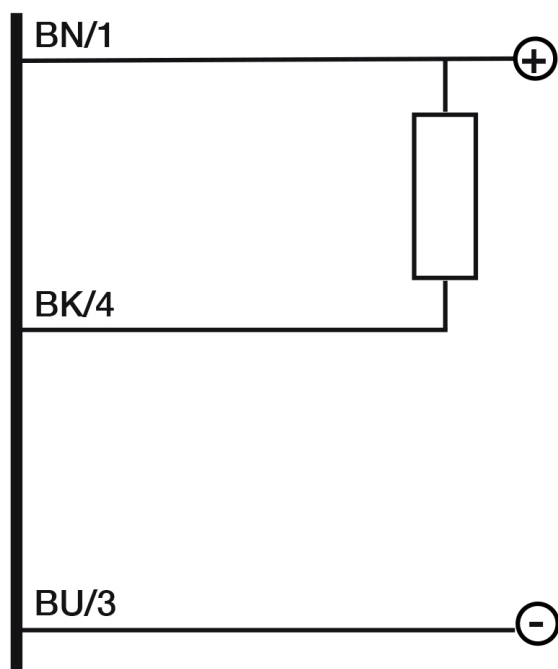
|                      |                |
|----------------------|----------------|
| Supplied Accessories | nuts M8 x 0,75 |
|----------------------|----------------|

## Generical Data

|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | M8x0,75/L=54mm                   |
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP67                             |

# CONNECTIONS

Eletrical diagram

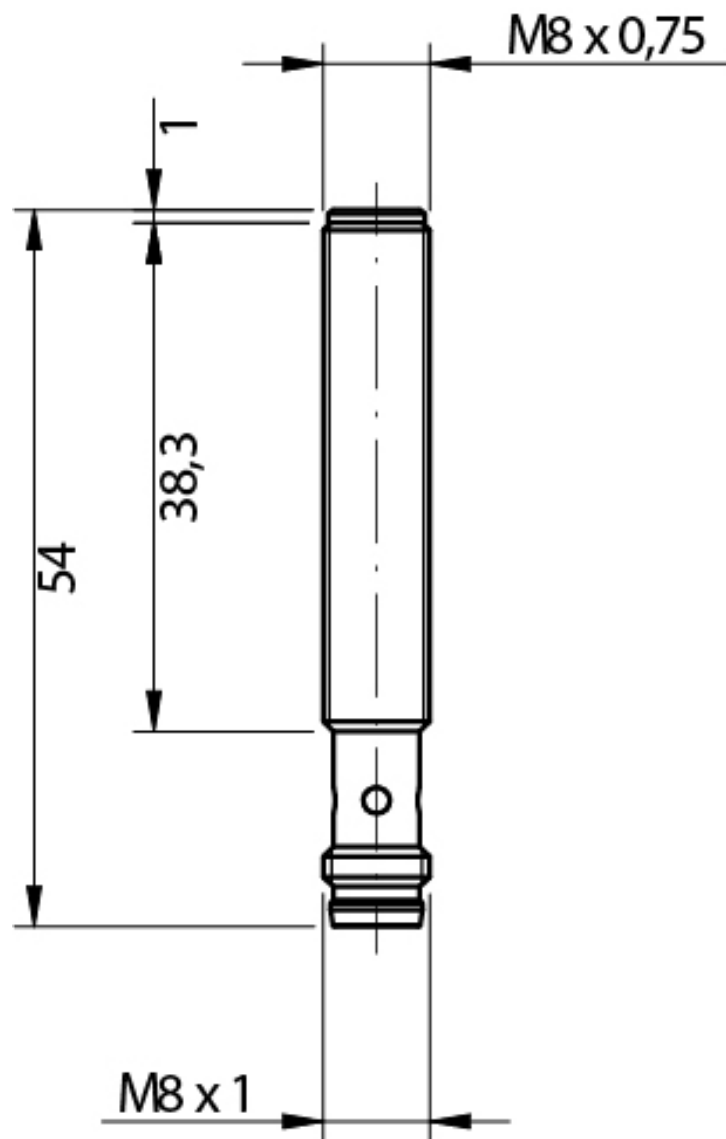


Connector

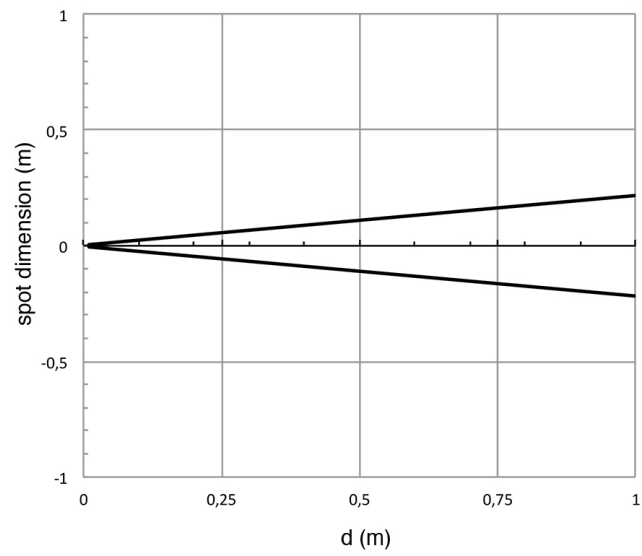


# OTHERS

Dimensions



Response curves



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