



# MS-MP

## MSD/00-1E

Photo.M18,NPN/PNP-NO/NC,M12 plug,Rec.  
M18 DECOUT® DC OUTPUT

## OVERVIEW

- Wide range of models: diffuse, retro-reflective, polarized, through-beam detection and background suppression
- Through-beam models with high sensing range
- Retro-reflective models with red visible polarized light
- Models with right angle optic (MP)
- Background suppression models with fixed distance
- Check function available for all through-beam models
- Complete protection against electrical damage



## TECHNICAL FEATURES

### Detection properties

|                          |                |
|--------------------------|----------------|
| Nominal sensing distance | 32m            |
| Thermal drift of Sr      | $\leq 10\%$ Sr |
| Repeat Accuracy          | 5%             |
| Sensitivity adjustment   | No             |

|                                |                                            |
|--------------------------------|--------------------------------------------|
| Application                    |                                            |
| Function Principle             | Receiver                                   |
| Emitter/Receiver               | Receiver                                   |
| Optic position                 | Axial                                      |
| Outputs                        |                                            |
| Output type                    | Decout NPN/PNP Selectable NO/NC Selectable |
| Output Function                | NO/NC Selectable                           |
| Switching frequency            | 30Hz                                       |
| Response time                  | 16,66ms                                    |
| Electrical data                |                                            |
| Operating Voltage              | 10...30VDC                                 |
| No-Load supply current         | ≤ 25mA                                     |
| Load current                   | ≤100mA                                     |
| Leakage current                | ≤10μA                                      |
| Output voltage drop            | ≤1,2V@Iload=100mA                          |
| Max ripple content             | ≤10%                                       |
| LED indicators                 | Red (status output)                        |
| Time delay before availability | ≤200ms                                     |
| Short-circuit protection       | Short circuit (autoreset), Overvoltage     |

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| Emission                         |                                                  |
| Interference to external light   | 3000lux (incandescent lamp), 10000lux (sunlight) |
| Impulsive Overvoltage Protection | Impulsive Overvoltage Protection                 |

Mechanical data

|                       |                                |
|-----------------------|--------------------------------|
| Dimensions            | M18 x 1 /L =93mm               |
| Housing material      | Nickel plated brass / PC plug  |
| Weight                | 100g                           |
| Connections           | M12 plug                       |
| Active Head Material  | PMMA                           |
| Tightening torque     | 25Nm                           |
| Operating temperature | 25°C..+ 70° C (Without freeze) |
| Diameter/Dimension    | M18                            |

Test/Approvals

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

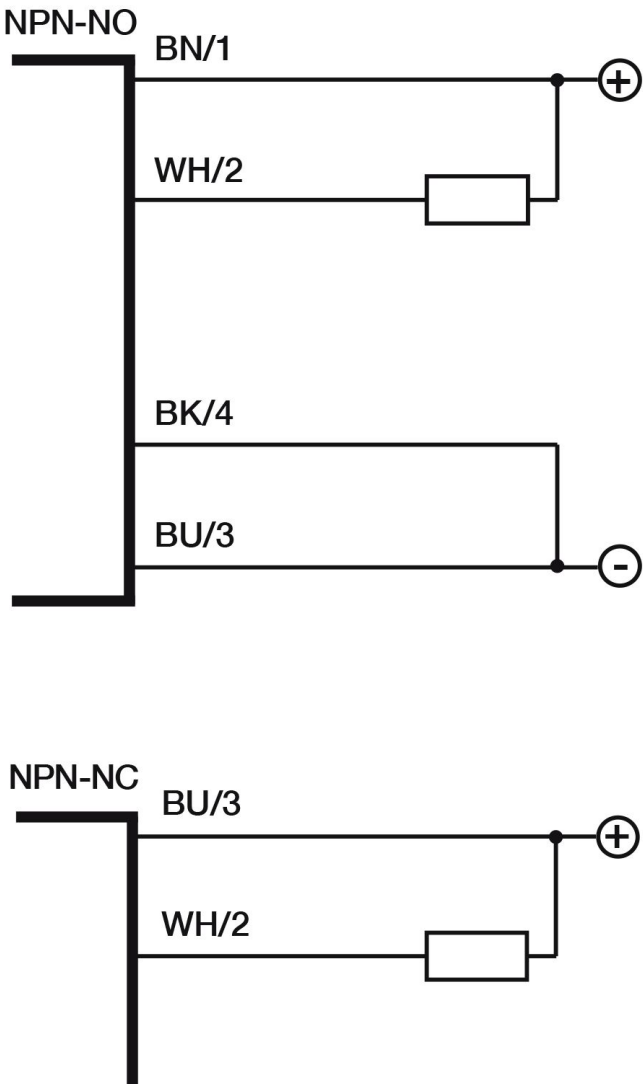
Accessories

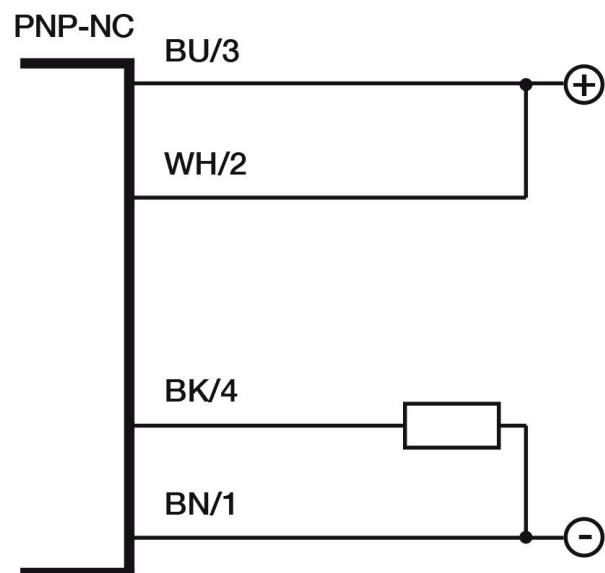
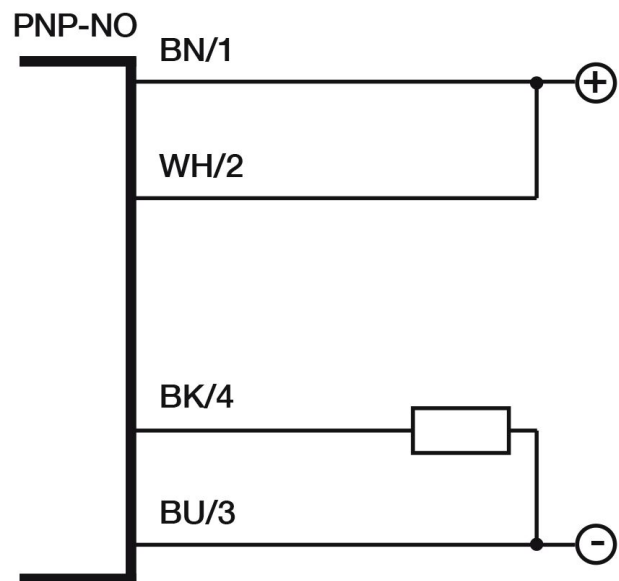
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|                       |                                  |
|-----------------------|----------------------------------|
| Supplied Accessories  | nuts M18 x 1                     |
| Generical Data        |                                  |
| Dimensions            | M18 x 1 /L =93mm                 |
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP67                             |

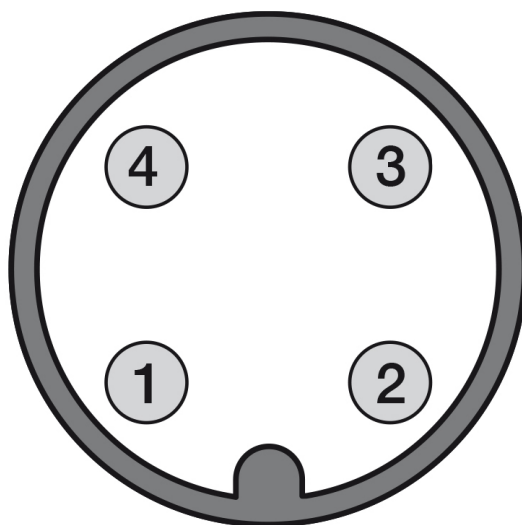
# CONNECTIONS

Eletrical diagram



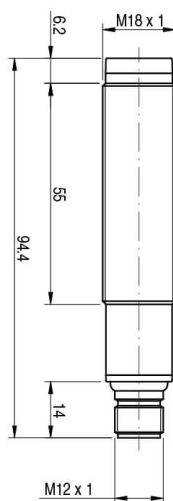
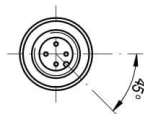


Connector



## OTHERS

### Dimensions



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