



# MS-MP

## MSE/X0-1E

Photo.M18,IR emiss.,M12 plug,Emitter  
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 | 16m (MSR), 32m (MSD) |
| Thermal drift of Sr      | ≤10% Sr              |
| Repeat Accuracy          | 5%                   |
| Sensitivity adjustment   | No                   |

## Application

### Function Principle

Emitter

### Emitter/Receiver

Emitter with check

### Check Input

Check input 4,5..30Vdc swithing off the emission

### Optic position

Axial

## Outputs

### Output type

## Electrical data

### Operating Voltage

10...30VDC

### No-Load supply current

$\leq 35\text{mA}$

### Max ripple content

$\leq 10\%$

### LED indicators

Red (powerON)

### Time delay before availability

$\leq 200\text{ms}$

### Short-circuit protection

Short circuit (autoreset), Overvoltage

### Emission

LED Infrared (880nm)

### 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

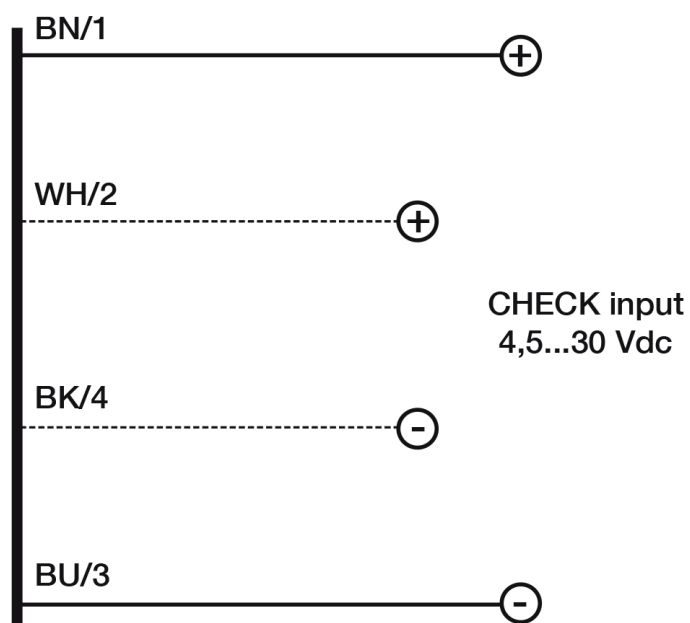
|                      |              |
|----------------------|--------------|
| Supplied Accessories | nuts M18 x 1 |
|----------------------|--------------|

Generical Data

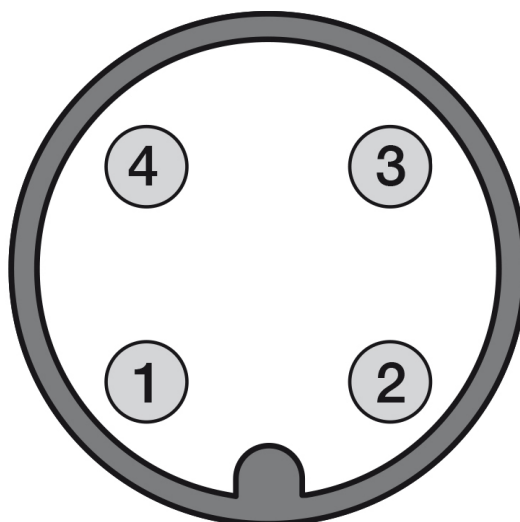
|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | M18 x 1 /L =93mm                 |
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP67                          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

# CONNECTIONS

Electrical diagram

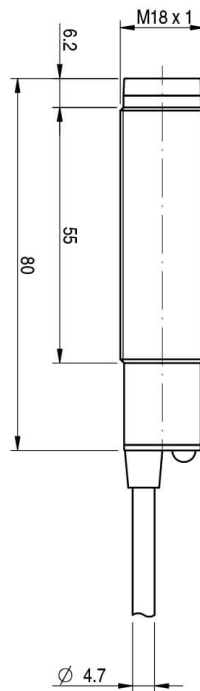


Connector

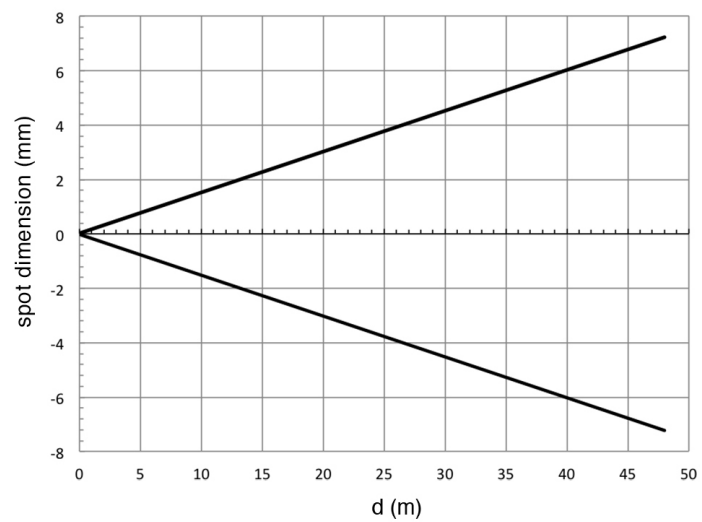


## OTHERS

## Dimensions



## Response curves



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