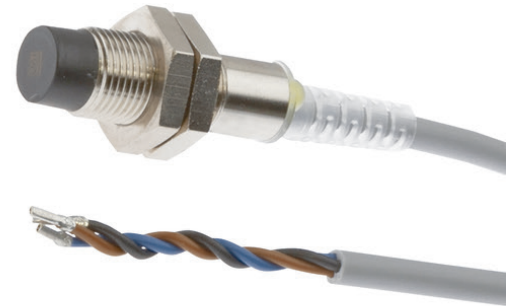


## IN120204

### INDUCTIVE SENSORS • NORM SWITCHING DISTANCE

sensor inductive, M12x1 37long, Non-flush, Sn: 6, 10-30V DC, PNP NC, Cable 2m PVC, IP67, Brass Nickel-plated



#### MECHANICAL FEATURES

|  |                        |
|--|------------------------|
| Active area material of sensor           | PBT                    |
| Alignment of cable entry                 | Axial                  |
| Ambient temperature                      | -25 °C ... 70 °C       |
| Cable infeed                             | Axial                  |
| Cable length                             | 2 m                    |
| Degree of protection (IP)                | IP67                   |
| Design                                   | Cylinder, screw-thread |
| Housing coating                          | Nickel-plated          |
| Housing material                         | Brass                  |
| Material of cable sheath                 | PVC                    |
| Mechanical mounting condition for sensor | Non-flush              |
| Number of cores                          | 3                      |
| Pressure-proof                           | -                      |
| Sensor length                            | 37 mm                  |
| Thread length                            | 20 mm                  |
| Thread pitch                             | 1 mm                   |
| Thread size, metric                      | 12                     |

#### ELECTRICAL FEATURES

|                                   |         |
|-----------------------------------|---------|
| Cascadable                        | -       |
| Correction factor (aluminum)      | 0.3     |
| Correction factor (brass)         | 0.4     |
| Correction factor (copper)        | 0.2     |
| Correction factor (St37)          | 1       |
| Correction factor (stainl. steel) | 0.7     |
| Hysteresis                        | 15 %    |
| No-load current                   | 15 mA   |
| Norm measuring plate              | 12x12x1 |
| Rated switching current           | 200 mA  |
| Relative repeat accuracy          | 10 %    |
| Reverse polarity protection       | +       |
| Short-circuit protection          | +       |
| Suitable for safety functions     | -       |

## ELECTRICAL FEATURES

|  |                         |
|--|-------------------------|
| Supply voltage                                 | 10 V ... 30 V           |
| Switching distance                             | 6 mm                    |
| Switching frequency                            | 400 Hz                  |
| Type of electrical connection                  | Cable                   |
| Type of switching function                     | Normally closed contact |
| Type of switching output                       | PNP                     |
| Voltage drop                                   | 2 V                     |
| Voltage type                                   | DC                      |
| With LED display                               | +                       |
| With monitoring function of downstream devices | -                       |

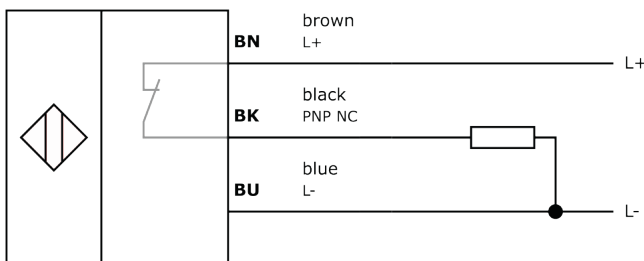
## Other

|                      |                           |
|----------------------|---------------------------|
| Packaging dimensions | 77.0mm x 25.0mm x 123.0mm |
| Shipping weight      | 0.09kg                    |
| Tariff code          | 85365019                  |

## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 203      |
| eClass 8.0        | 27270101 |
| eClass 9.0        | 27270101 |
| eClass 9.1        | 27270101 |
| ETIM-5.0          | EC002714 |
| ETIM-6.0          | EC002714 |
| ETIM-7.0          | EC002714 |

## Connection



## Dimensional drawing

### Installation



Mounting / installation may only be carried out by a qualified electrician!

### Disposal



## Safety warnings

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information. Never use these devices in applications where the safety of a person depends on their functionality. LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.

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[IFRM06P1703/S35L](#) [IFRM08P1501/S35L](#) [IFRM12N17G3/L](#) [IFRM12P17G3/L](#) [IFRM12P3502/L](#) [IFRM12P37G1/S14L](#) [ILFK12E9189/I02](#)  
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