

**IN120156**
**INDUCTIVE SENSORS • INCREASED AMBIENT TEMPERATURE**

sensor inductive, M12x1 60long, Non-flush, Sn: 4, 10-35V DC, 130°C,  
PNP NO, Cable 5m Silicone, IP65, Stainless steel 1.4305


**MECHANICAL FEATURES**

|                                          |                        |
|------------------------------------------|------------------------|
| Active area material of sensor           | Vectra®                |
| Alignment of cable entry                 | Axial                  |
| Ambient temperature                      | 0 °C ... 130 °C        |
| Cable infeed                             | Axial                  |
| Cable length                             | 5 m                    |
| Degree of protection (IP)                | IP65                   |
| Design                                   | Cylinder, screw-thread |
| Housing material                         | Stainless steel 1.4305 |
| Increased ambient temperatures > 80°C    | +                      |
| Material of cable sheath                 | Silicone               |
| Max. tightening torque                   | 20 Nm                  |
| Mechanical mounting condition for sensor | Non-flush              |
| Pressure-proof                           | -                      |
| Sensor length                            | 60 mm                  |
| Thread length                            | 48 mm                  |
| Thread pitch                             | 1 mm                   |
| Thread size, metric                      | 12                     |
| Wire cross section                       | 0.14 mm <sup>2</sup>   |

**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           | 120 mA  |
| Readiness delay                   | 80 ms   |
| Relative repeat accuracy          | 3 %     |
| Residual ripple                   | 10 %    |

## ELECTRICAL FEATURES

|                                                |                       |
|------------------------------------------------|-----------------------|
| Response time                                  | 1 ms                  |
| Reverse polarity protection                    | +                     |
| Short-circuit protection                       | +                     |
| Suitable for safety functions                  | -                     |
| Supply voltage                                 | 10 V ... 35 V         |
| Switching distance                             | 4 mm                  |
| Switching frequency                            | 500 Hz                |
| Type of electrical connection                  | Cable                 |
| Type of switching function                     | Normally open contact |
| Type of switching output                       | PNP                   |
| Voltage drop                                   | 2 V                   |
| Voltage type                                   | DC                    |
| With LED display                               | +                     |
| With monitoring function of downstream devices | -                     |

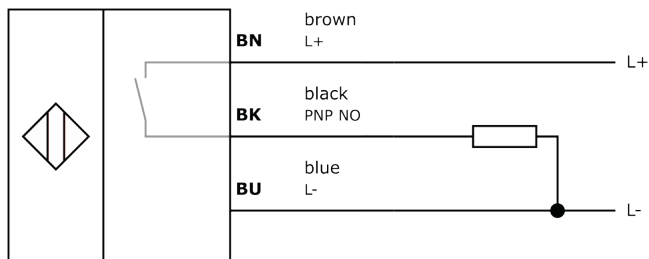
## Other

|                      |                       |
|----------------------|-----------------------|
| Packaging dimensions | 70mm x 40mm x 125.0mm |
| Shipping weight      | 0.13kg                |
| Tariff code          | 85365019              |

## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 202      |
| 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.