

**IB12C341**
**INDUCTIVE SENSORS • INCREASED AMBIENT TEMPERATURE**

sensor inductive, M12x1 56long, Flush, Sn: 3, 10-35V DC, 150°C, PNP  
NO, Cable 5m Polytetrafluorethylene (PTFE), IP50, Stainless steel  
1.4305


**MECHANICAL FEATURES**

|  |                               |
|--|-------------------------------|
| Active area material of sensor           | Vectra®                       |
| Alignment of cable entry                 | Axial                         |
| Ambient temperature                      | 0 °C ... 150 °C               |
| Cable infeed                             | Axial                         |
| Cable length                             | 5 m                           |
| Degree of protection (IP)                | IP50                          |
| Design                                   | Cylinder, screw-thread        |
| Housing material                         | Stainless steel 1.4305        |
| Increased ambient temperatures > 80°C    | +                             |
| Material of cable sheath                 | Polytetrafluorethylene (PTFE) |
| Mechanical mounting condition for sensor | Flush                         |
| Number of cores                          | 3                             |
| Pressure-proof                           | -                             |
| Sensor length                            | 56 mm                         |
| Thread length                            | 48 mm                         |
| Thread pitch                             | 1 mm                          |
| Thread size, metric                      | 12                            |
| Wire cross section                       | 0.22 mm <sup>2</sup>          |

**ELECTRICAL FEATURES**

|                               |         |
|-------------------------------|---------|
| ATEX approval                 | +       |
| Cascadable                    | -       |
| 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 %    |
| Response time                 | 1 ms    |
| Reverse polarity protection   | +       |
| Short-circuit protection      | +       |
| Suitable for safety functions | -       |

## ELECTRICAL FEATURES

|  |                       |
|--|-----------------------|
| Supply voltage                                 | 10 V ... 35 V         |
| Switching distance                             | 3 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 monitoring function of downstream devices | -                     |

## OTHER FEATURES

|                            |                                |
|----------------------------|--------------------------------|
| ATEX product marking, dust | II 3D Ex tc IIIB T155°C Dc 0°C |
|----------------------------|--------------------------------|

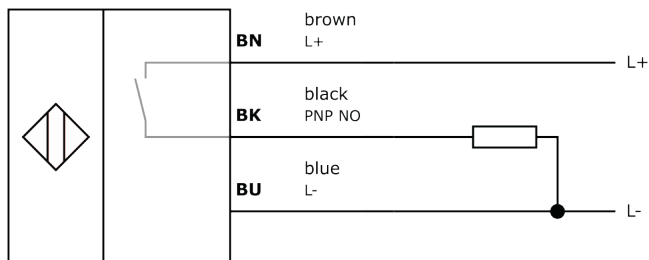
## Other

|                      |                            |
|----------------------|----------------------------|
| Packaging dimensions | 124.0mm x 28.0mm x 149.0mm |
| Shipping weight      | 0.16kg                     |
| Tariff code          | 85365019                   |

## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 700      |
| 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.

