

## IB0801A3

### INDUCTIVE SENSORS • INCREASED SWITCHING DISTANCE

sensor inductive, M8x1 40long, Flush, Sn: 2, 10-30V DC, PNP NO,  
Cable 2m PUR (Polyurethane), IP67, Stainless steel 1.4305



#### MECHANICAL FEATURES

|  |                        |
|--|------------------------|
| Active area material of sensor           | PBT                    |
| Alignment of cable entry                 | Axial                  |
| Ambient temperature                      | -25 °C ... 70 °C       |
| Cable length                             | 2 m                    |
| Degree of protection (IP)                | IP67                   |
| Design                                   | Cylinder, screw-thread |
| Housing material                         | Stainless steel 1.4305 |
| Material of cable sheath                 | PUR (Polyurethane)     |
| Mechanical mounting condition for sensor | Flush                  |
| Number of cores                          | 3                      |
| Pressure-proof                           | -                      |
| Sensor length                            | 40 mm                  |
| Thread length                            | 35 mm                  |
| Thread pitch                             | 1 mm                   |
| Thread size, metric                      | 8                      |
| 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              | 8x8x1         |
| Rated switching current           | 200 mA        |
| Relative repeat accuracy          | 10 %          |
| Reverse polarity protection       | +             |
| Short-circuit protection          | +             |
| Suitable for safety functions     | -             |
| Supply voltage                    | 10 V ... 30 V |

## ELECTRICAL FEATURES

|  |                       |
|--|-----------------------|
| Switching distance                             | 2 mm                  |
| Switching frequency                            | 1000 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 | -                     |

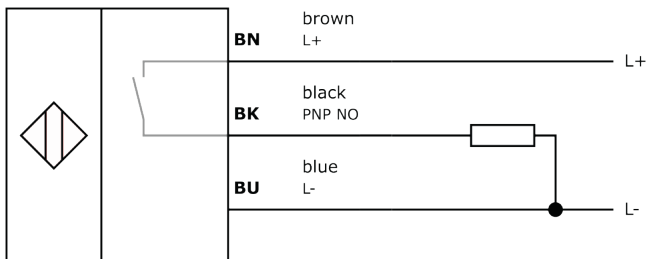
## Other

|                      |                        |
|----------------------|------------------------|
| Packaging dimensions | 100mm x 14.0mm x 120mm |
| Shipping weight      | 0.05kg                 |
| Tariff code          | 85365019               |

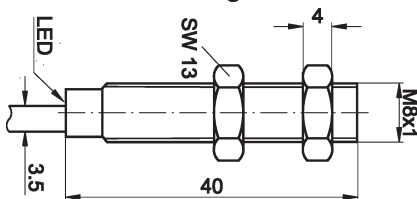
## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 200      |
| 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



**Software**

**Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: [www.ipf-electronic.com](http://www.ipf-electronic.com)**

**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.