

## IM080170

### INDUCTIVE SENSORS • NORM SWITCHING DISTANCE

sensor inductive, preferential, M8x1 50long, Non-flush, Sn: 2, 10-30V DC, PNP NO, Connector M8 3pin, IP67, Brass Nickel-plated



#### MECHANICAL FEATURES

|  |                        |
|--|------------------------|
| Active area material of sensor           | PA 6.6 (synthetic)     |
| Alignment of cable entry                 | Axial                  |
| Ambient temperature                      | -25 °C ... 70 °C       |
| Cable infeed                             | Axial                  |
| Degree of protection (IP)                | IP67                   |
| Design                                   | Cylinder, screw-thread |
| Housing coating                          | Nickel-plated          |
| Housing material                         | Brass                  |
| Mechanical mounting condition for sensor | Non-flush              |
| Pressure-proof                           | -                      |
| Sensor length                            | 50 mm                  |
| Thread length                            | 30 mm                  |
| Thread pitch                             | 1 mm                   |
| Thread size, metric                      | 8                      |

#### 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         |
| Number of pins                    | 3             |
| 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 |
| Switching distance                | 2 mm          |

## ELECTRICAL FEATURES

|  |                       |
|--|-----------------------|
| Switching frequency                            | 1000 Hz               |
| Type of electrical connection                  | Connector M8          |
| 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 | -                     |

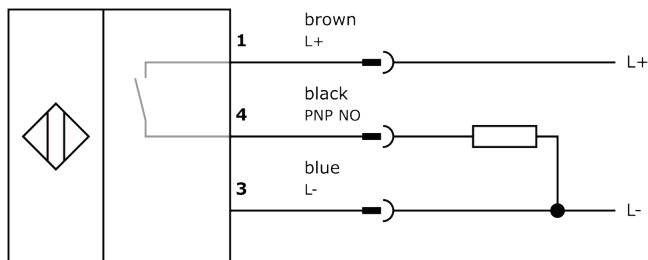
## Other

|                      |                        |
|----------------------|------------------------|
| Packaging dimensions | 100mm x 17.0mm x 120mm |
| Shipping weight      | 0.02kg                 |
| Tariff code          | 85365019               |

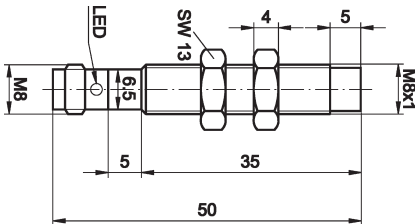
## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 216      |
| 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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