

## OS050075

### OPTICAL SENSORS • THROUGH-BEAM SENSORS TRANSMITTERS

sensor optical, Through-beam sensor transmitter, M5x0.5 36long,  
Sn: 0.5m, 10-30V DC, IO-Link, Cable connector M8 3pin 0.3m PUR  
(Polyurethane), IP67, V2A+PMMA, Polarity free red light



#### MECHANICAL FEATURES

|                             |                                 |
|-----------------------------|---------------------------------|
| Ambient temperature         | -25 °C ... 65 °C                |
| Cable length                | 0.3 m                           |
| Degree of protection (IP)   | IP67                            |
| Design                      | Cylinder, screw-thread          |
| Housing material            | Stainless steel (V2A)           |
| Material of cable sheath    | PUR (Polyurethane)              |
| Material of optical surface | PMMA                            |
| Max. tightening torque      | 1 Nm                            |
| Sensor length               | 36 mm                           |
| Thread length               | 30 mm                           |
| Thread pitch                | 0.5 mm                          |
| Thread size, metric         | 5                               |
| Version                     | Through-beam sensor transmitter |
| Wire cross section          | 0.14 mm <sup>2</sup>            |

#### ELECTRICAL FEATURES

|  |                    |
|--|--------------------|
| Connection to amplifier                  | -                  |
| Function test                            | -                  |
| Input (TeachIn)                          | -                  |
| IO-Link compatible                       | +                  |
| Measuring range                          | 0.5 m              |
| No-load current                          | 8 mA               |
| No-load current, transmitter             | 8 mA               |
| Number of pins                           | 3                  |
| Operating voltage                        | 10 V ... 30 V      |
| Rated control supply voltage $U_s$ at DC | 10 V ... 30 V      |
| Rated switching distance                 | 500 mm             |
| Residual ripple                          | 10 %               |
| Reverse polarity protection              | +                  |
| Suitable for safety functions            | -                  |
| Type of electrical connection            | Cable connector M8 |
| Voltage type                             | DC                 |
| With time function                       | -                  |

## OPTICAL FEATURES

|                          |                         |
|--------------------------|-------------------------|
| Angle of beam spread     | 15 °                    |
| Light source             | Polarity free red light |
| Wavelength of the sensor | 630 nm                  |
| Light beam form          | Point                   |

## OTHER FEATURES

|   |             |
|---|-------------|
| Scope of delivery of the one-way system | Transmitter |
|---|-------------|

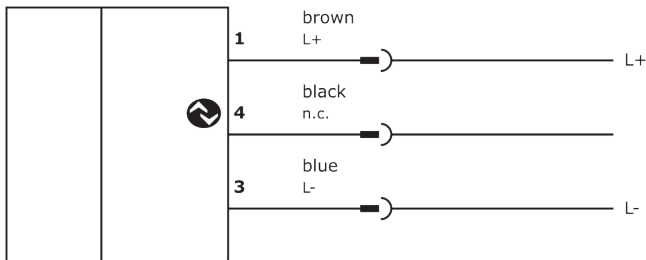
### Other

|                      |                      |
|----------------------|----------------------|
| Packaging dimensions | 180mm x 10mm x 210mm |
| Shipping weight      | 0.02kg               |
| Tariff code          | 85365019             |

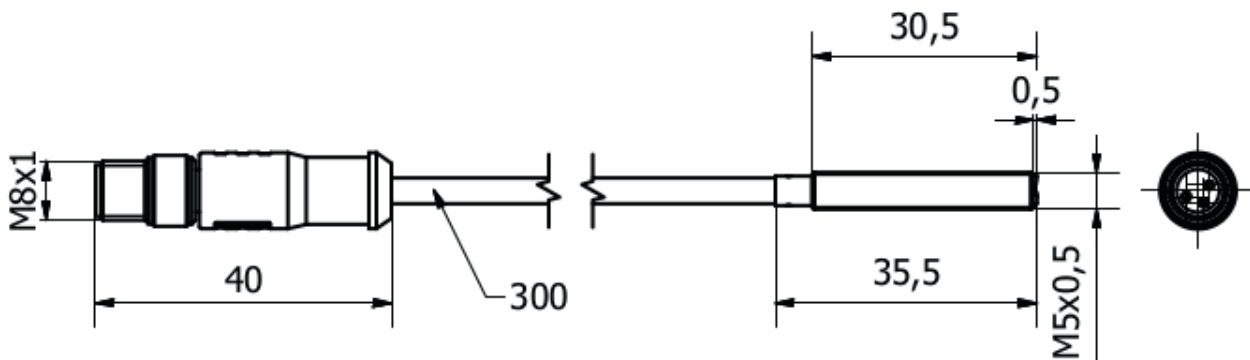
## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 100      |
| eClass 8.0        | 27270901 |
| eClass 9.0        | 27270901 |
| eClass 9.1        | 27270901 |
| ETIM-5.0          | EC002716 |
| ETIM-6.0          | EC002716 |
| ETIM-7.0          | EC002716 |

## Connection



## Dimensional drawing



## Installation



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

## Disposal



## Software

Any software, drivers or IOOD 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.

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