

**OE050175**
**OPTICAL SENSORS • THROUGH-BEAM SENSORS RECEIVERS**

sensor optical, Through-beam sensor receiver, M5x0.5 36long, Sn:  
 0.5m, 10-30V DC, PNP NO (NO), 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 receiver
Wire cross section	0.14 mm <sup>2</sup>

**ELECTRICAL FEATURES**

Connection to amplifier	-
Decay time	0.5 ms
IO-Link compatible	+
Measuring range	0.5 m
No-load current	10 mA
No-load current, receiver	10 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 current	100 mA
Rated switching distance	500 mm
Residual ripple	10 %
Response time	0.5 ms
Reverse polarity protection	+
Scanning function	Dark switching
Short-circuit protection	+
Suitable for safety functions	-

## ELECTRICAL FEATURES

Switching frequency	1000 Hz
Type of electrical connection	Cable connector M8
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With LED display (functional reserve)	+
With LED display (signal)	+
With time function	-

## OPTICAL FEATURES

Light source	Polarity free red light
Light beam form	Point

## OTHER FEATURES

Scope of delivery of the one-way system	Receiver
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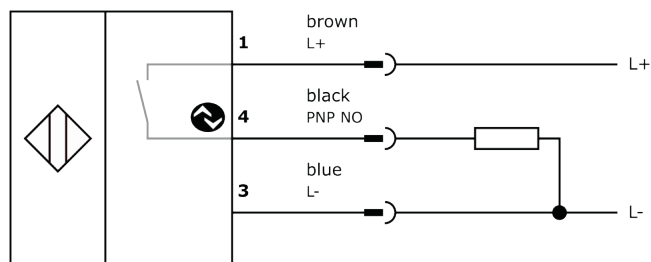
### Other

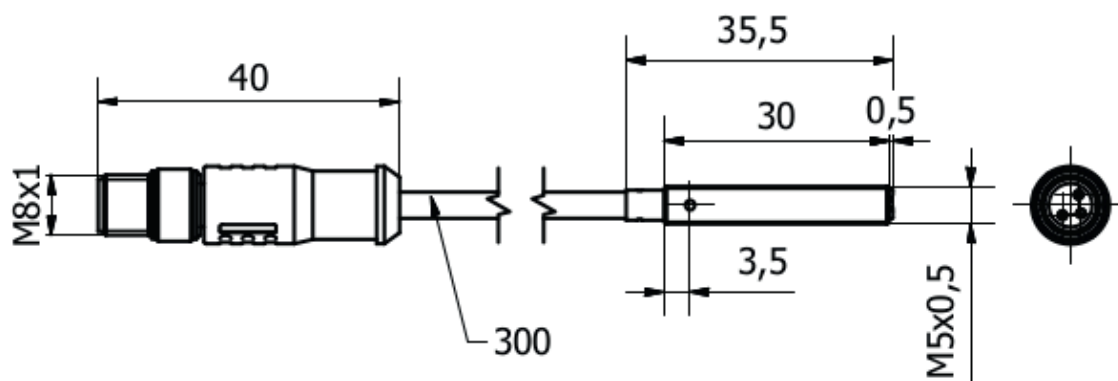
Packaging dimensions	180mm x 10mm x 210mm
Shipping weight	0.02kg
Tariff code	85365019

### 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 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.