

## OT059174

### OPTICAL SENSORS • DIFFUSE REFLECTION SENSORS WITH INTENSITY DIFFERENTIATION

sensor optical, diffuse-reflection sensor, M5x0.5 36long, Sn: 10, 10-30V DC, 1x PNP NO (NO), IO-Link, Cable connector M8 3pin 0.3m PUR (Polyurethane), IP67, V2A+PMMA, 1kHz, Polarity free red light, Point



#### 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
Number of cores	3
Reflector included in the scope of delivery	-
Sensor length	36 mm
Thread length	30 mm
Thread pitch	0.5 mm
Thread size, metric	5
Wire cross section	0.14 mm <sup>2</sup>
With interchangeable lens	-

#### ELECTRICAL FEATURES

Alarm output	-
Decay time	0.5 ms
Equipment protection class	Protection class 3
High repeat accuracy	-
Interference suppression	-
IO-Link compatible	+
Max. switching distance	12 mm
No-load current	12 mA
Number of pins	3
Number of switching outputs	1
Operating voltage	10 V ... 30 V
Pre-failure message	-
Rated switching current	100 mA
Residual ripple	10 %
Response time	0.5 ms

**ELECTRICAL FEATURES**

Reverse polarity protection	+
Scanning function	Light switching
Sensing range	10 mm ... 10 mm
Short-circuit protection	+
Suitable for safety functions	-
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 communication interface, RS-232	-
With LED display	+
With monitoring function of downstream devices	-
With other analog output	-
With restart lock	-
With time function	-

**OPTICAL FEATURES**

Light source	Polarity free red light
Wavelength of the sensor	630 nm
Light exit	Axial
Light beam form	Point
Small light beam diameter	-
Line scanner	-

**OTHER FEATURES**

Feeding technology	+
For gloss queries	-
Is line scan camera	-

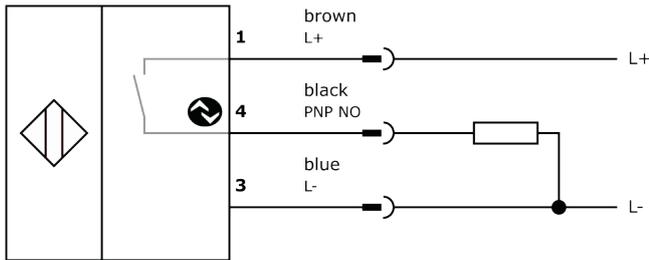
**Other**

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

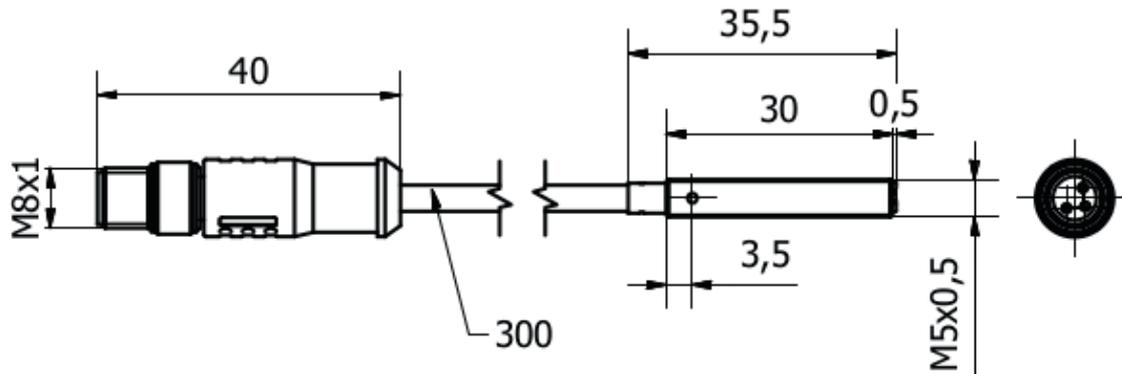
**Classification**

ipf product group	100
eClass 8.0	27270903
eClass 9.0	27270903
eClass 9.1	27270903
ETIM-5.0	EC001821
ETIM-6.0	EC001821
ETIM-7.0	EC001821

## 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.