

**OR180420**
**OPTICAL SENSORS • RETRO-REFLECTIVE SENSORS**

sensor optical, reflective, M18x1 72long, Infrared light, Point, Sn:  
100-5000, 10-30V DC, PNP NC/NO, Connector M12 4pin, IP67, Brass  
Nickel-plated+PMMA


**MECHANICAL FEATURES**

Ambient temperature	-25 °C ... 55 °C
Degree of protection (IP)	IP67
Design	Cylinder, screw-thread
Housing coating	Nickel-plated
Housing material	Brass
Material of optical surface	PMMA
Reflector included in the scope of delivery	-
Sensor length	71.5 mm
Shock resistance	30 g
Storage temperature	-25 °C ... 70 °C
Thread pitch	1 mm
Thread size, metric	18

**ELECTRICAL FEATURES**

Decay time	0.5 ms
Interference suppression	+
Max. switching distance	5000 mm
No-load current	35 mA
Number of pins	4
Operating voltage	10 V ... 30 V
Rated switching current	100 mA
Response time	0.5 ms
Reverse polarity protection	+
Scanning function	Light-/dark-on mode
Short-circuit protection	+
Switching frequency	1000 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With polarizing filter	-

## ELECTRICAL FEATURES

With time function

-

## OPTICAL FEATURES

Light source	Infrared light
Min. reflector distance	100 mm
Wavelength of the sensor	880 nm
Light beam form	Point
For transparent objects	-

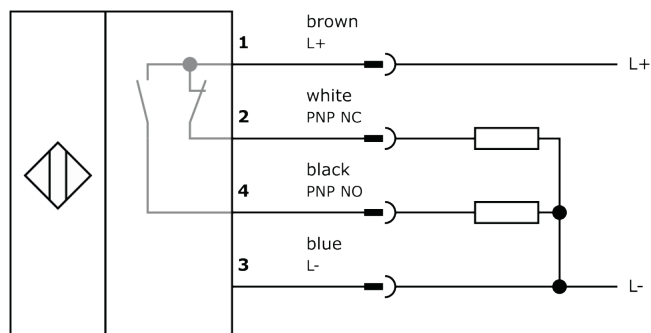
## Other

Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.07kg
Tariff code	85365019

## Classification

ipf product group	100
eClass 8.0	27270902
eClass 9.0	27270902
eClass 9.1	27270902
ETIM-5.0	EC002717
ETIM-6.0	EC002717
ETIM-7.0	EC002717

## 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.