

**OT120120**
**OPTICAL SENSORS • DIFFUSE REFLECTION SENSORS WITH INTENSITY DIFFERENTIATION**

sensor optical, diffuse-reflection sensor, M12x1 80long, Sn: 30-200, 10-30V DC, 1x PNP NO (NO), Connector M12 4pin, IP65, Brass Nickel-plated+Plastic, 0.5kHz, Infrared light, Point, Manual adjustment


**MECHANICAL FEATURES**

Ambient temperature	-25 °C ... 65 °C
Degree of protection (IP)	IP65
Design	Cylinder, screw-thread
Housing coating	Nickel-plated
Housing material	Brass
Material of optical surface	Plastic
Reflector included in the scope of delivery	-
Sensor length	80 mm
Thread length	42 mm
Thread pitch	1 mm
Thread size, metric	12
With interchangeable lens	-

**ELECTRICAL FEATURES**

Alarm output	-
Decay time	1 ms
Equipment protection class	Protection class 3
High repeat accuracy	-
Interference suppression	+
Max. switching distance	200 mm
No-load current	42 mA
Number of pins	4
Number of switching outputs	1
Operating voltage	10 V ... 30 V
Pre-failure message	-
Rated switching current	200 mA
Response time	1 ms
Reverse polarity protection	+
Scanning function	Light switching
Sensing range	30 mm ... 200 mm
Setting procedure	Manual adjustment
Short-circuit protection	+
Suitable for safety functions	-

## ELECTRICAL FEATURES

Switching frequency	500 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Voltage drop	1.8 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	Infrared light
Wavelength of the sensor	880 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	-

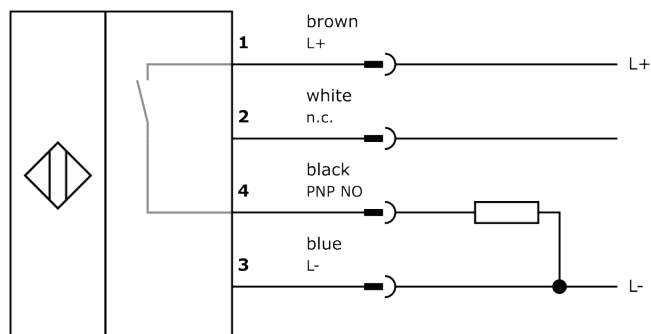
## Other

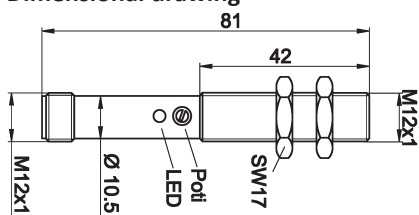
Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.04kg
Tariff code	85365019

## 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****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.