

OT180323
OPTICAL SENSORS • DIFFUSE REFLECTION SENSORS WITH INTENSITY DIFFERENTIATION

sensor optical, diffuse-reflection sensor, M18x1 70long, Sn: 200, 10-30V DC, 1x PNP Programmable/configurable, Connector M12 4pin, IP67, Brass Nickel-plated+Plastic, 0.5kHz, Infrared light, Point, Manual adjustment


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	Plastic
Reflector included in the scope of delivery	-
Sensor length	70 mm
Storage temperature	-40 °C ... 70 °C
Thread length	35 mm
Thread pitch	1 mm
Thread size, metric	18
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	25 mA
Number of pins	4
Number of switching outputs	1
Operating voltage	10 V ... 30 V
Pre-failure message	-
Rated switching current	100 mA
Readiness delay	25 ms
Residual ripple	10 %
Response time	1 ms
Reverse polarity protection	+
Scanning function	Light-/dark-on mode
Sensing range	200 mm ... 200 mm

ELECTRICAL FEATURES

Setting procedure	Manual adjustment
Short-circuit protection	+
Suitable for safety functions	-
Switching frequency	500 Hz
Type of electrical connection	Connector M12
Type of switching function	Programmable/configurable
Type of switching output	PNP
Voltage drop	2.5 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	-

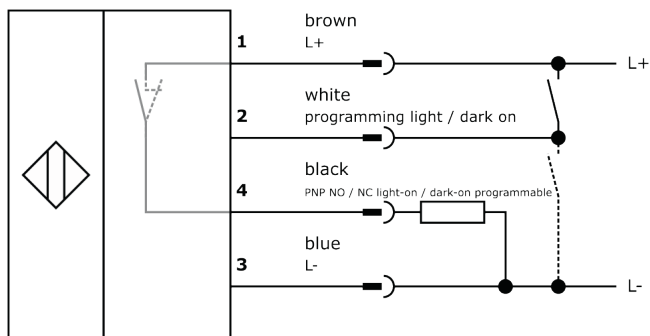
Other

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

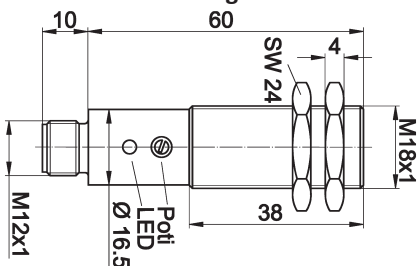
Classification

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.