

OT180405

OPTICAL SENSORS • DIFFUSE REFLECTION SENSORS WITH INTENSITY DIFFERENTIATION

sensor optical, diffuse-reflection sensor, M18x1 50long, Sn: 40-600, 10-35V DC, 2x PNP Anticoincidence, Cable 2m PVC, IP67, Brass Chrome-plated+Glass, 1kHz, Polarity free red light, Point, Manual adjustment



MECHANICAL FEATURES

Ambient temperature	-25 °C ... 55 °C
Cable length	2 m
Degree of protection (IP)	IP67
Design	Cylinder, screw-thread
Housing coating	Chrome-plated
Housing material	Brass
Material of cable sheath	PVC
Material of optical surface	Glass
Max. tightening torque	20 Nm
Number of cores	4
Reflector included in the scope of delivery	-
Sensor length	50 mm
Thread length	50 mm
Thread pitch	1 mm
Thread size, metric	18
Wire cross section	0.25 mm ²
With interchangeable lens	-

ELECTRICAL FEATURES

Alarm output	-
Clock frequency of the transmitter	15 kHz
Decay time	0.5 ms
Equipment protection class	Protection class 3
High repeat accuracy	-
Hysteresis	10 %
Interference suppression	-
Max. switching distance	600 mm
No-load current	20 mA
Number of switching outputs	2
Operating voltage	10 V ... 35 V
Pre-failure message	-
Rated switching current	200 mA
Readiness delay	60 ms

ELECTRICAL FEATURES

Response time	0.5 ms
Reverse polarity protection	+
Scanning function	Light-/dark-on mode
Sensing range	40 mm ... 600 mm
Setting procedure	Manual adjustment
Short-circuit protection	+
Suitable for safety functions	-
Switching frequency	1000 Hz
Type of electrical connection	Cable
Type of switching function	Anticoincidence
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	660 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	-

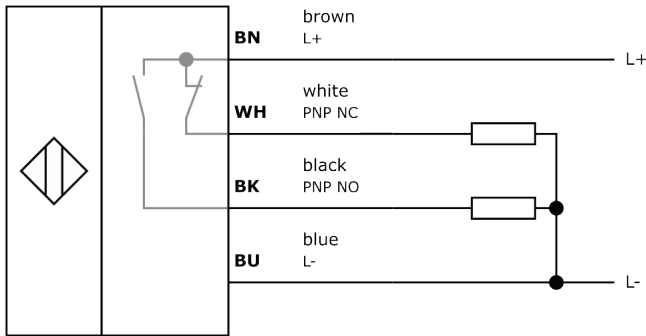
Other

Packaging dimensions	180mm x 20mm x 210mm
Shipping weight	0.12kg
Tariff code	85365019

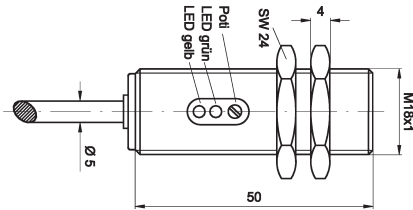
Classification

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.

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