

OT380423
OPTICAL SENSORS • DIFFUSE REFLECTION SENSORS WITH BACKGROUND SUPPRESSION

sensor optical, diffuse-reflection sensor, 48x38x15mm, Sn: 5-400, 10-30V DC, -40°C, 2x PNP Anticoincidence, Connector M12 5pin, IP67, Metal+Glass, 1kHz, Background suppression, Polarity free red light, Point, Manual adjustment


MECHANICAL FEATURES

Ambient temperature	-40 °C ... 60 °C
Degree of protection (IP)	IP67
Design	Cuboid
Housing material	Metal
Material of optical surface	Glass
Reflector included in the scope of delivery	-
Sensor height	48 mm
Sensor length	38 mm
Sensor width	15 mm
Volume	Medium

ELECTRICAL FEATURES

Adjustment range	5 mm ... 400 mm
Analog output 0 mA ... 20 mA	-
Analog output 0 V ... 10 V	-
Analog output -10 V ... +10 V	-
Analog output 4 mA ... 20 mA	-
Max. switching distance	400 mm
Min. switching distance	5 mm
No-load current	15 mA
Number of pins	5
Number of switching outputs	2
Operating voltage	10 V ... 30 V
Rated switching current	100 mA
Rated switching distance	400 mm
Readiness delay	100 ms
Residual ripple	15 %
Reverse polarity protection	+
Scanning function	Light-/dark-on mode
Sensing range	5 mm ... 400 mm
Setting procedure	Manual adjustment
Short-circuit protection	+
Switching frequency	1000 Hz

ELECTRICAL FEATURES

Type of electrical connection	Connector M12
Type of switching function	Anticoincidence
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With LED display (signal)	+
With other analog output	-
With time function	-

OPTICAL FEATURES

Light source	Polarity free red light
Wavelength of the sensor	660 nm
Triangulation	Background suppression
Light beam form	Point
Background suppression	+

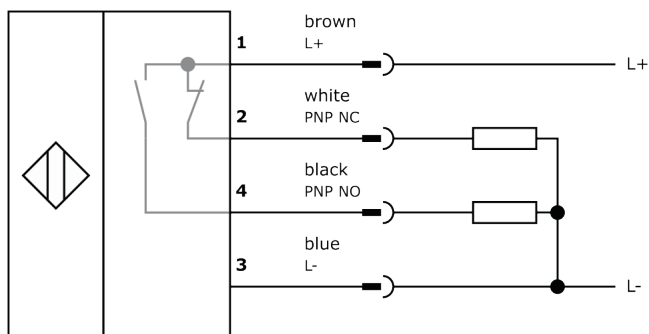
Other

Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.09kg
Tariff code	85365019

Classification

ipf product group	100
eClass 8.0	27270904
eClass 9.0	27270904
eClass 9.1	27270904
ETIM-5.0	EC002719
ETIM-6.0	EC002719
ETIM-7.0	EC002719

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.