OYQ80300

OPTICAL SENSORS • THROUGH-BEAM SENSORS

sensor optical, Light barrier, 19x10x8,2mm, Sn: 2m, 12-24V DC, PNP Programmable/configurable, Cable 2m PUR (Polyurethane), IP67, Plastic ABS+Plastic, Polarity free red light

MECHANICAL FEATURES

Ambient temperature	-25 °C ... 55 °C
Cable length	2 m
Degree of protection (IP)	IP67
Design	Cuboid
Housing material	Plastic ABS
Material of cable sheath	PUR (Polyurethane)
Material of optical surface	Plastic
Number of cores	3
Sensor height	19 mm
Sensor length	10.5 mm
Sensor width	8.2 mm
Shock resistance	50 g
Storage temperature	-30 °C ... 70 °C
Version	Light barrier
Vibration resistance	500 Hz
Volume	Small
Wire cross section	0.1 mm²

ELECTRICAL FEATURES

Connection to amplifier	-
Decay time	0.5 ms
Measuring range	2 m
No-load current, receiver	15 mA
No-load current, transmitter	10 mA
Operating voltage	12 V ... 24 V
Rated switching current	50 mA
Rated switching distance	2000 mm
Relative repeat accuracy	50 µm
Residual ripple	10 %
Response time	0.5 ms
Reverse polarity protection	+
Scanning function	Light-/dark-on mode
Setting procedure	Manual adjustment

ELECTRICAL FEATURES

Short-circuit protection	+
Suitable for safety functions	-
Switching frequency	1000 Hz
Type of electrical connection	Cable
Type of input voltage	DC
Type of switching function	Programmable/configurable
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With LED display (functional reserve)	+
With LED display (operation)	+
With LED display (signal)	+
With time function	-

OPTICAL FEATURES

Light source	Polarity free red light
Wavelength of the sensor	680 nm
Light beam form	Point

OTHER FEATURES

Scope of delivery of the one-way system	Transmitter and receiver

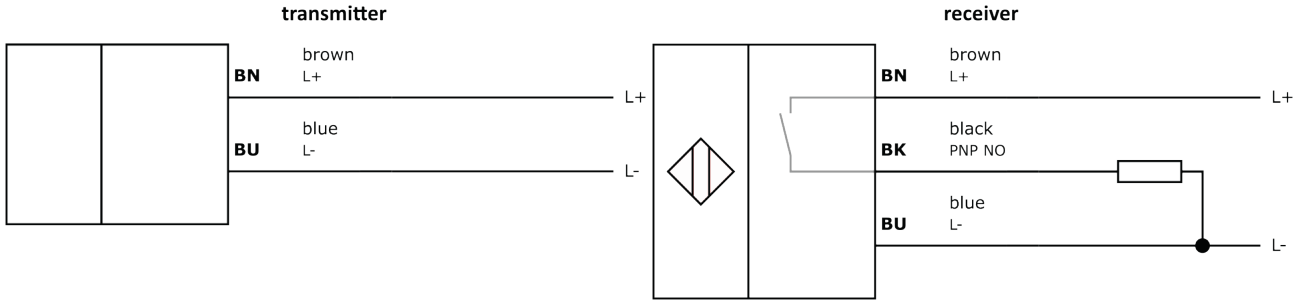
Other

Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.05kg
Tariff code	85365019

Classification

ipf product group	100
eClass 8.0	27270901
eClass 9.0	27270901
eClass 9.1	27270901
ETIM-5.0	EC002716
ETIM-6.0	EC002716
ETIM-7.0	EC002716

Connection



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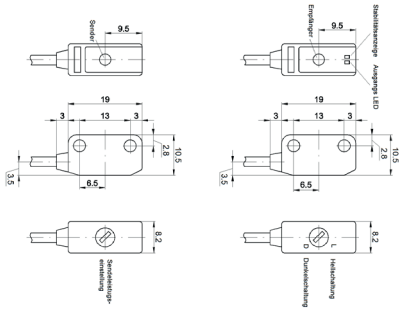
Dimensional drawing



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.