

ORQ80170**OPTICAL SENSORS • RETRO-REFLECTIVE SENSORS**

sensor optical, reflective, 22x12x8,2mm, Polarity free red light, Point, Manual adjustment, Sn: 30-200, 12-24V DC, PNP NO (NO), Cable connector M8 0.3m, IP67, Plastic ABS, Alarm output, With polarizing filter

**MECHANICAL FEATURES**

Ambient temperature	-25 °C ... 55 °C
Cable length	0.3 m
Degree of protection (IP)	IP67
Design	Cuboid
Housing material	Plastic ABS
Increased ambient temperatures >70°C	-
Reflector included in the scope of delivery	+
Sensor height	22 mm
Sensor length	12.3 mm
Sensor width	8.2 mm
Shock resistance	50 g
Storage temperature	30 °C ... 70 °C
Volume	Small

ELECTRICAL FEATURES

Alarm output	+
Decay time	0.5 ms
Function test	-
Interference suppression	-
Max. switching distance	200 mm
No-load current	20 mA
Operating voltage	12 V ... 24 V
Rated switching current	50 mA
Rated switching distance	200 mm
Relative repeat accuracy	0.5 mm
Residual ripple	10 %
Response time	0.5 ms
Reverse polarity protection	+
Scanning function	Dark switching
Setting procedure	Manual adjustment
Short-circuit protection	+
Switching frequency	1000 Hz
Type of alarm output	PNP

ELECTRICAL FEATURES

Type of electrical connection	Cable connector M8
Type of input voltage	DC
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Voltage drop	1 V
Voltage type	DC
With LED display	+
With polarizing filter	+
With time function	-

OPTICAL FEATURES

Light source	Polarity free red light
Min. reflector distance	30 mm
Wavelength of the sensor	680 nm
Min. object size	15 mm
Light beam form	Point
For transparent objects	-

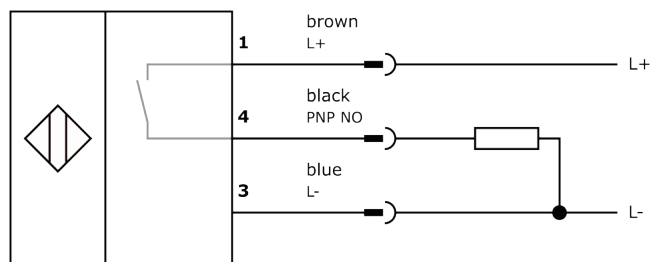
Other

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	27270902
eClass 9.0	27270902
eClass 9.1	27270902
ETIM-5.0	EC002717
ETIM-6.0	EC002717
ETIM-7.0	EC002717

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.