wenglor
the innovative family

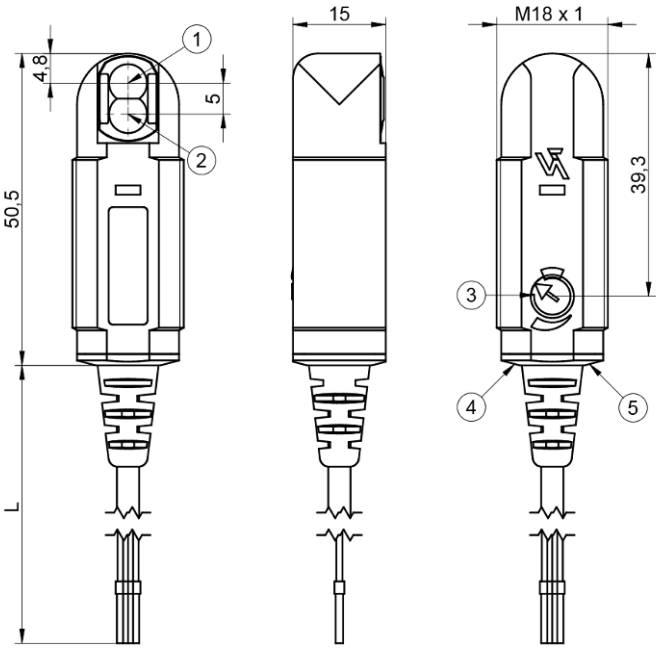
Technical Data

OTWK502A0091

Reflex Sensor

Energetic





Symbol	Key
1	Emitter diode
2	Receiver diode
3	Switching distance adjuster
4	Power LED
5	Switching status indicator/contamination warning
L	Cable length

EN

Dimensions in mm
Subject to change without notice
Version 1
www.wenglor.com

Technical data

Optical Data	
Range	500 mm
Switching Hysteresis	< 15 %
Light Source	Infrared, LED
Service Life (T = +25 °C)	100000 h
Max. Ambient Light	10000 Lux
Opening Angle	5 °
Light Spot Diameter	see table 1

Electrical Data	
Supply Voltage	10...30 V DC
Supply Voltage with IO-Link	18...30 V DC
Current Consumption (Ub = 24 V)	< 30 mA
Switching Frequency	500 Hz
Response Time	1 ms
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
PNP Switching Output/Switching Current	200 mA
Residual Current Switching Output	< 50 µA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Lockable	yes
Interface	IO-Link V1.1
Protection Class	III

Mechanical Data	
Setting Method	Potentiometer
Housing Material	Plastic, ABS-GF
Degree of Protection	IP67
Connection Type	Cable variants
Connection	Cable; 4-wire
Cable length (L)	2 m
Cable Jacket Material	PVC

Safety-relevant Data	
MTTFd (EN ISO 13849-1)	2988.01 a

General Data	
Scope of delivery	1 × Z0008 mounting console 1 × initial start-up instructions 1 × MUTTER-M18-E012 hex nut 1 × sensor
Packaging unit	1 Piece

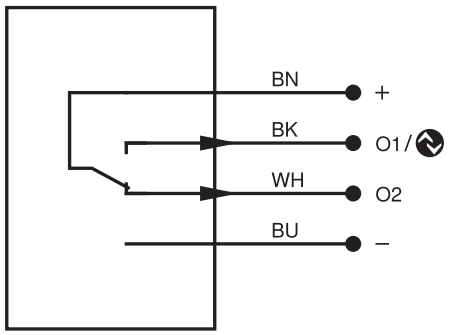
Adjustable parameters	
Output	Push-pull NPN PNP
Circuit	NC NC+NO NO
Other parameters	Off-delay On-delay Mode of operation Error output Switching hysteresis Emitted light

All other parameters can be found in the product documentation.

*IO-Link availability is valid for all sensors from revision G. The revision can be found in the production order number “xxxxx/G/xxxxxx,” which is indicated on the product label.

BMECat data	
eCl@ss 5.1.4	27-27-09-03 Light scanner, energetic
eCl@ss 6.x	27-27-09-03 Light scanner, energetic
eCl@ss 7.0	27-27-09-03 Light scanner, energetic
eCl@ss 7.1	27-27-09-03 Light scanner, energetic
eCl@ss 8.x	27-27-09-03 Light scanner, energetic
eCl@ss 10.0.1	27-27-09-03 Light scanner, energetic

Technical illustrations



Wire color	Pin function	Polarity	Circuit
Brown	Supply Voltage +		
White	Switching Output 2	PNP	Antivalent
Blue	Supply voltage 0 V		
Black	Switching Output 1 IO-Link	PNP	NO

Table 1			
Detection Range	100 mm	300 mm	500 mm
Light Spot Diameter	11 mm	26 mm	41 mm


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