wenglor
the innovative family

Technical Data

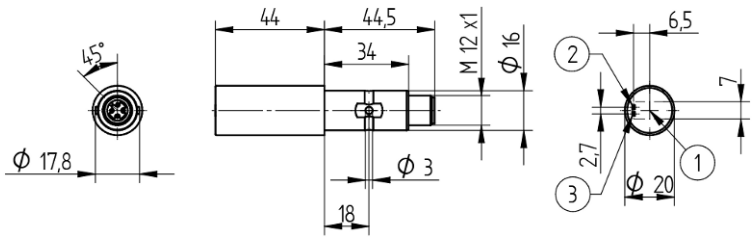
OTI802C0103

Reflex Sensor

Energetic



Symbol	Key
1	Optical axis
2	Operating Status Indicator
3	Contamination warning



EN

Dimensions in mm
Subject to change without notice
Version 0
www.wenglor.com

Technical data

Optical Data	
Range	800 mm
Switching Hysteresis	< 15 %
Light Source	Infrared, LED
Wavelength	850 nm
Service Life (T = +25 °C)	100000 h
Max. Ambient Light	10000 Lux
Light Spot Diameter	see table

Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 40 mA
Switching Frequency	1600 Hz
Response Time	313 µs
On-/Off-Delay (RS-232)	0...5 s
Temperature Drift	< 5 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
PNP Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Lockable	yes
Teach Mode	NT, MT
Protection Class	III

Mechanical Data	
Setting Method	Teach-In
Housing Material	Stainless steel, V4A (1.4404/316L)
Degree of Protection	IP69K IP68
Connection Type	Plug variant
Connection	M12 × 1; 4-pin
Optic Cover	Plastic, PMMA (FDA)

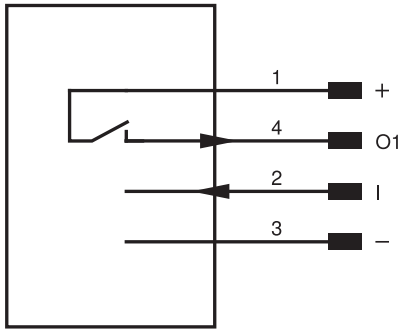
General Data	
Approvals	FDA compliant

Adjustable parameters	
Circuit	NC NC/NO NO

All other parameters can be found in the product documentation.

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



Pin	Pin function	Polarity	Circuit
1	Supply Voltage +		
2		High activ	
3	Supply voltage 0 V		
4	Switching output	PNP	NO

Table 1			
Detection Range	100 mm	500 mm	800 mm
Light Spot Diameter	19 mm	40 mm	55 mm