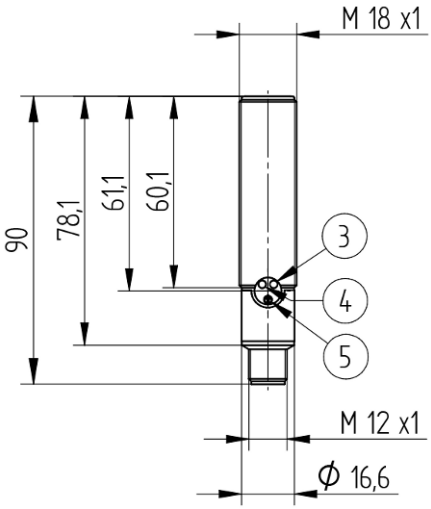
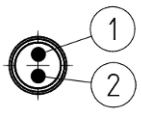
wenglor
the innovative family

Technical Data
TC55NA3
Reflex Sensor
Energetic







Symbol	Key
1	Receiver diode
2	Emitter diode
3	Operating Status Indicator
4	Contamination warning
5	Switching distance adjuster

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	12 °

Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 40 mA
Switching Frequency	2 kHz
Response Time	250 µs
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
NPN Switching Output/Switching Current	100 mA
Residual Current Switching Output	< 50 µA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III

Mechanical Data	
Setting Method	Potentiometer
Housing Material	Stainless steel, V2A (1.4305/303)
Full Encapsulation	yes
Degree of Protection	IP67
Connection Type	Plug variant
Connection	M12 × 1; 4-pin

Safety-relevant Data	
MTTFd (EN ISO 13849-1)	1888.75 a

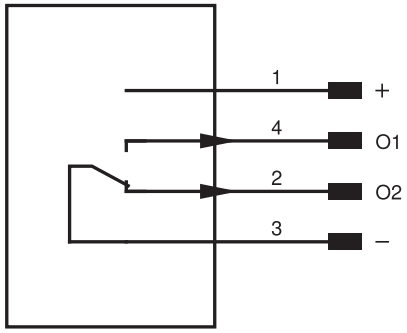
General Data	
Scope of delivery	1 × initial start-up instructions 1 × MUTTER-M18-E003 hex nut 1 × sensor

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	Switching Output 2	NPN	Antivalent
3	Supply voltage 0 V		
4	Switching Output 1	NPN	NO

