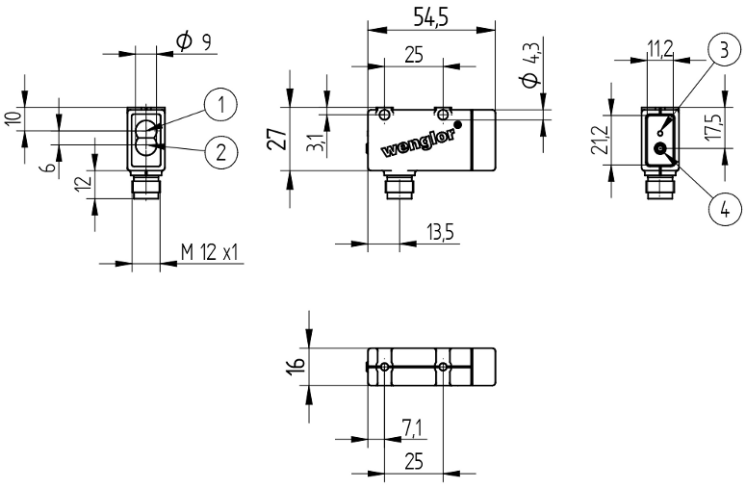
wenglor
the innovative family

Technical Data
WM03NCT2
Print Mark Reader





Symbol	Key
1	Emitter diode
2	Receiver diode
3	Operating Status Indicator
4	Teach-in button

EN

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

Technical data

Optical Data	
Working Range	12...18 mm
Working Distance	15 mm
Resolution (Gray Scale)	20
Switching Hysteresis	< 2 %
Light Source	LED, white
Wavelength	400...700 nm
Service Life (T = +25 °C)	100000 h
Max. Ambient Light	10000 Lux
Light Spot Diameter	1.5 × 2.5 mm

Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 30 mA
Switching Frequency	5 kHz
Response Time	100 µs
Off-Delay	20 ms
Off-Delay (RS-232)	0...2 s
Temperature Drift	< 2 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
NPN Switching Output/Switching Current	100 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Lockable	yes
Teach Mode	ZT, FT
Protection Class	III

Mechanical Data	
Setting Method	Teach-In
Housing Material	Plastic, PBT
Optic Cover	Plastic, PMMA
Full Encapsulation	yes
Degree of Protection	IP67
Connection Type	Plug variant
Connection	M12 × 1; 4-pin

Safety-relevant Data	
MTTFd (EN ISO 13849-1)	2164.07 a

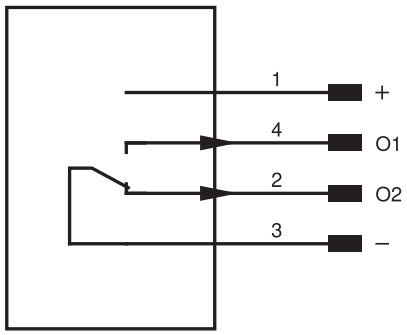
General Data	
Scope of delivery	1 × initial start-up instructions 1 × sensor

Adjustable parameters	
Circuit	NC NC/NO NO

All other parameters can be found in the product documentation.

BMECat data	
eCl@ss 5.1.4	27-27-09-06 Contrast scanner
eCl@ss 6.x	27-27-09-06 Contrast scanner
eCl@ss 7.0	27-27-09-06 Contrast scanner
eCl@ss 7.1	27-27-09-06 Contrast scanner
eCl@ss 8.x	27-27-09-06 Contrast scanner
eCl@ss 10.0.1	27-27-09-06 Contrast scanner

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

Illustration 1: Ideal Working Distance

