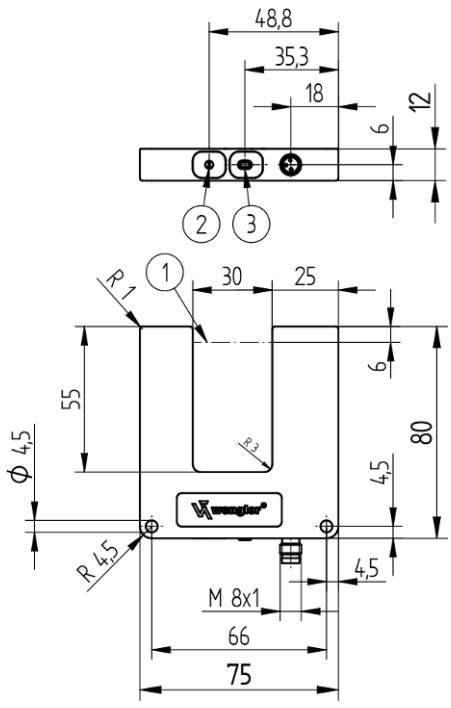
wenglor
the innovative family

Technical Data
YH03PCT8
Fork Sensor





Symbol	Key
1	Optical axis
2	Rotary selector switch
3	Multi-function button

EN

Dimensions in mm
Subject to change without notice
Version 1
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Technical data

Optical Data	
Fork Width	30 mm
Smallest Recognizable Part	40 µm
Smallest Detectable Gap	50 µm
Switching Hysteresis	< 20 µm
Light Source	Laser, red
Wavelength	655 nm
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	1
Max. Ambient Light	10000 Lux
Light Spot Diameter	0.6 mm
Repeat Accuracy	< 5 µm

Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 50 mA
Switching Frequency	10 kHz
Response Time	50 µs
Off-Delay	0...100 ms
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 1.5 V
PNP Switching Output/Switching Current	200 mA
Internal Load Switching Output	5100 Ohm
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Teach Mode	NT, MT
Protection Class	III
FDA Accession Number	2510938-000

Mechanical Data	
Setting Method	Teach-In
Housing Material	Plastic, PA Steel, nickel-plated
Optic Cover	Plastic, PC
Full Encapsulation	yes
Degree of Protection	IP67
Connection Type	Plug variant
Connection	M8 × 1; 3-pin

Safety-relevant Data	
MTTFd (EN ISO 13849-1)	1436.4 a

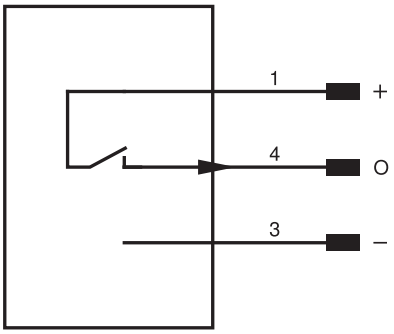
General Data	
Scope of delivery	1 × initial start-up instructions 1 × sensor

Adjustable parameters	
Circuit	NC NC/NO NO

All other parameters can be found in the product documentation.

BMECat data	
eCl@ss 5.1.4	27-27-09-09 Fork sensor
eCl@ss 6.x	27-27-09-09 Fork sensor
eCl@ss 7.0	27-27-09-09 Fork sensor
eCl@ss 7.1	27-27-09-09 Fork sensor
eCl@ss 8.x	27-27-09-09 Fork sensor
eCl@ss 10.0.1	27-27-09-09 Fork sensor

Technical illustrations



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