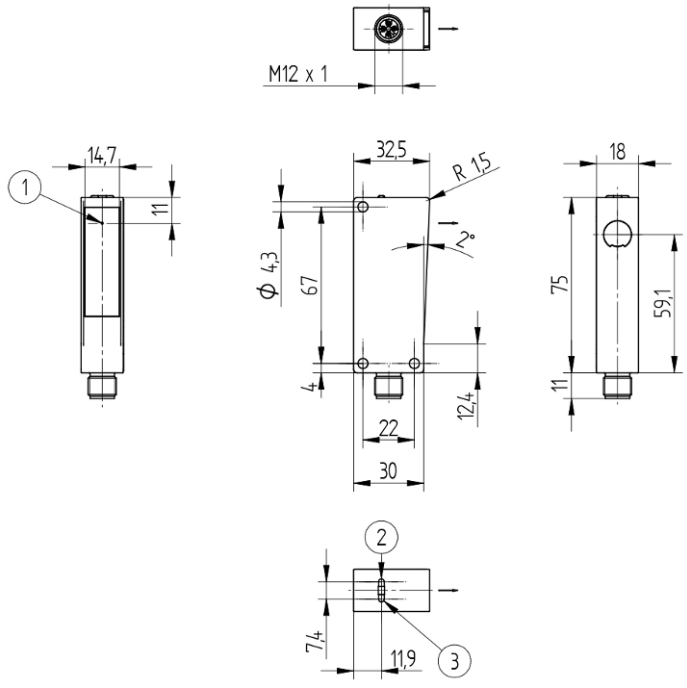
wenglor
the innovative family

Technical Data
P1NS101
Through-Beam Sensor





Symbol	Key
1	Emitter diode
2	Power LED
3	Function indicator

EN

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

Technical data

Optical Data	
Range	20000 mm
Light Source	LED, red
Service Life (T = +25 °C)	100000 h
Opening Angle	4 °
Light Spot Diameter	see table 1
Optical axis	Aligned
Switching point	Calibrated

Electrical Data	
Sensor Type	Emitter
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 30 mA
Temperature Drift	< 10 %
Temperature Range	-40...60 °C
Reverse Polarity Protection	yes
Test input	yes
Protection Class	III

Mechanical Data	
Housing Material	Plastic, ABS/PC
Degree of Protection	IP67 IP68
Connection	M12 × 1; 4-pin
Optic Cover	Plastic, PMMA

Safety-relevant Data	
MTTFd (EN ISO 13849-1)	4534.36 a

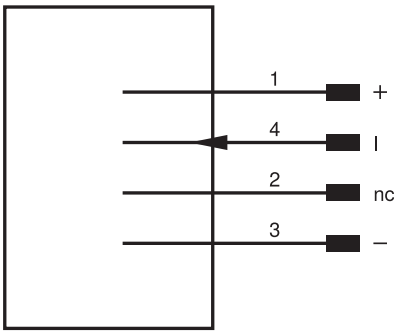
General Data	
Scope of delivery	1 × initial start-up instructions 1 × sensor

Adjustable parameters	
Other parameters	Emitted light

All other parameters can be found in the product documentation.

BMECat data	
eCl@ss 5.1.4	27-27-09-01 One-way light barrier
eCl@ss 6.x	27-27-09-01 One-way light barrier
eCl@ss 7.0	27-27-09-01 One-way light barrier
eCl@ss 7.1	27-27-09-01 One-way light barrier
eCl@ss 8.x	27-27-09-01 One-way light barrier
eCl@ss 10.0.1	27-27-09-01 One-way light barrier

Technical illustrations



Pin	Pin function	Polarity
1	Supply Voltage +	
2	Not connected	
3	Supply voltage 0 V	
4		High activ

Table 1			
Distance transmitter/receiver	1 m	5 m	20 m
Light Spot Diameter	80 mm	200 mm	800 mm