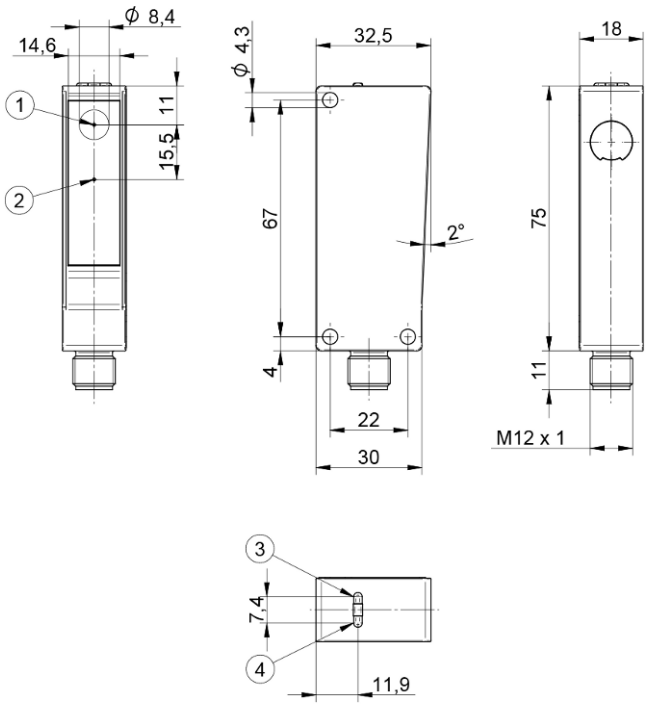
wenglor
the innovative family

Technical Data

S1NE003
Safety Through-Beam Sensor

Receiver





Symbol	Key
1	Receiver diode
2	Alignment tool/switching status indicator
3	Power LED
4	Switching status indicator/contamination warning

EN

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

Technical data

Optical Data	
Range	0.25...25 m
Light Source	LED, red
Wavelength	660 nm
Max. Ambient Light	10000 Lux
Opening Angle	± 5 °

Electrical Data	
Sensor Type	Receiver
Supply Voltage	19.2...28.8 V DC
Current Consumption (Ub = 24 V)	< 20 mA
Response Time	1.8 ms
Temperature Range	-30...60 °C
Storage temperature	-30...70 °C
Switching Output Voltage Drop	< 2 V
PNP Switching Output/Switching Current	100 mA
Residual Current Switching Output	< 50 µA
Short Circuit Protection	yes
Overload Protection	yes
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data	
Housing Material	Plastic, ABS
Optic Cover	Plastic, PMMA
Degree of Protection	IP65 IP67
Connection	M12 × 1; 4-pin

Safety-relevant Data	
ESPE Type (EN 61496)	2
Safety Category (EN ISO 13849-1)	2
Performance Level (EN ISO 13849-1)	PL c
Mission Time TM (EN ISO 13849-1)	20 a
MTTFd (EN ISO 13849-1)	381 a

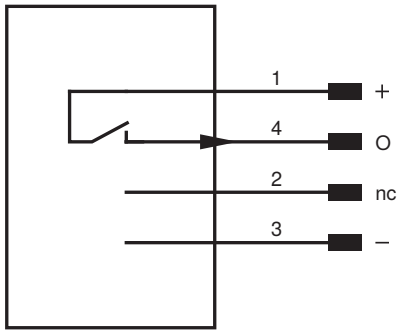
General Data	
Scope of delivery	1 × sensor

Technical safety data in combination with suitable safety controller

BMECat data	
eCl@ss 5.1.4	27-27-27-01 Safety-related irradiating light barrier
eCl@ss 6.x	27-27-27-01 Safety-related irradiating light barrier
eCl@ss 7.0	27-27-27-01 Safety-related irradiating light barrier

BMECat data	
eCl@ss 7.1	27-27-27-01 Safety-related irradiating light barrier
eCl@ss 8.x	27-27-27-01 Safety-related irradiating light barrier
eCl@ss 10.0.1	27-27-27-01 Safety-related irradiating light barrier

Technical illustrations



Pin	Pin function	Polarity	Circuit
1	Supply Voltage +		
2	Not connected		
3	Supply voltage 0 V		
4	Switching output	PNP	NO