



SAFETY SINGLE-BEAM SENSORS

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Ordering information

Scanning range	Type of light	Light source	System part	Туре	Part no.
50 m	Red light, visible	PinPoint LED	Sender	WSO26P- 243ZZ1A0ZZZ- ZLLZZZZZZZZ1	2113106

Other models and accessories → www.sick.com/L26



Detailed technical data

Features

Smart Sensor	Diagnosis Efficient communication Smart Task
Light source	PinPoint LED
Type of light	Red light, visible
Scanning range	50 m
Number of beams	1
Detection capability	30 mm ¹⁾
Response time	0.5 ms
Response time	0.5 ms + Test device response time
Cascading	Cascading allows up to 4 single-beam photoelectric safety switches to be connected in series. You can find response times and connection diagrams for cascading in the operating instructions.

1) A test rod with a diameter of at least 30 mm is required for thorough check. Suitable test rods are available as accessories from SICK.

Safety-related parameters

Туре	Type 2 (IEC 61496-1) ¹⁾
Safety integrity level	SIL 1 (IEC 61508) ¹⁾
Category	Category 2 (EN ISO 13849) 1)
Test rate (external test)	100 /s (EN ISO 13849)

 $^{(1)}$ Only in combination with an appropriate test device, e.g., Flexi Classic or Flexi Soft.

²⁾ Between two requirements on a safety-related response of the device, at least 100 external tests must be carried out.

SAFETY SINGLE-BEAM SENSORS

Maximum demand rate	≤ 60 min ⁻¹ (EN ISO 13849) ²⁾
Performance level	PL c (EN ISO 13849) ¹⁾
$\ensuremath{PFH}_{\ensuremath{D}}$ (mean probability of a dangerous failure per hour)	1.0 x 10 ⁻⁶ (EN ISO 13849) ¹⁾
T _M (mission time)	20 years (EN ISO 13849)

 $^{\mbox{1})}$ Only in combination with an appropriate test device, e.g., Flexi Classic or Flexi Soft.

²⁾ Between two requirements on a safety-related response of the device, at least 100 external tests must be carried out.

Interfaces

Connection type	Male connector M12, 4-pin, connector 270° rotatable
Configuration method	Via IO-Link
Display elements	LEDs
Alignment aid	Alignment quality via diagnostic LEDs Easy and quick sensor alignment using BluePilot
Application diagnostic output (ADO)	✓
IO-Link	✓
Data exchange via IO-Link	Device information Quality of reception
Configuration via IO-Link	Switching output Application diagnostic output (ADO)
IO-Link master	SiLink2 Master IOLA2US-01101
Configuration software	SOPAS ET

Electrical data

Protection class	III (IEC 61140)
Supply voltage V _S	24 V DC (19.2 V DC 28.8 V DC)
Residual ripple	≤ 5 V
Power consumption	≤ 30 mA
Test input voltage	\leq 3 V (Sender off) ¹⁾ \geq U _V - 4 V (Sender on) ¹⁾
Test input response time	≤ 1.1 ms

¹⁾ The test input may not not be operated when not connected. The test input has a pull-up resistor to activate the sender (sender on) even when not connected. Therefore, an active-switched LOW signal is required to activate the cyclic test with test gap (sender off).

Mechanical data

Design	Rectangular
Dimensions (W x H x D)	26.4 mm x 48.1 mm x 82.2 mm
Housing material	VISTAL®
Ambient data	
Enclosure rating	IP66 (IEC 60529) IP67 (IEC 60529) IP69K (ISO 20653)
Ambient operating temperature	-40 °C +60 °C
Storage temperature	-40 °C +75 °C
Air humidity	15 % 95 %, Non-condensing
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 60068-2-6)

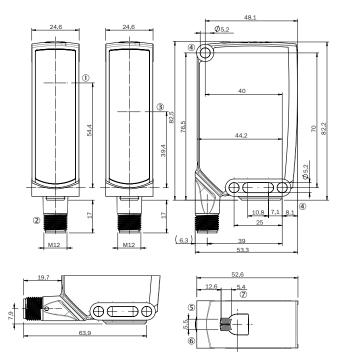
SAFETY SINGLE-BEAM SENSORS

Shock resistance	10 g, 16 ms (IEC 60068-2-29)
Other information	
Light source	PinPoint LED
Type of light	Red light, visible
Wave length	635 nm
Light spot diameter (distance)	90 mm (8 m)
Classifications	
ECLASS 5.0	27272701
ECLASS 5.1.4	27272701
ECLASS 6.0	27272701
ECLASS 6.2	27272701
ECLASS 7.0	27272701
ECLASS 8.0	27272701
ECLASS 8.1	27272701
ECLASS 9.0	27272701
ECLASS 10.0	27272701
ECLASS 11.0	27272701
ECLASS 12.0	27272701
ETIM 5.0	EC001831
ETIM 6.0	EC001831
ETIM 7.0	EC001831
ETIM 8.0	EC001831
UNSPSC 16.0901	46171620

SAFETY SINGLE-BEAM SENSORS

Dimensional drawing (Dimensions in mm (inch))

L26



- ① Center of optical axis, sender
- ② Connection
- ③ Center of optical axis, receiver
- ④ Mounting holes
- ⑤ Green operating LED: Supply voltage active
- (6) Yellow status LED: Light receiver indication
- ⑦ Alignment aid (BluePilot): Blue alignment quality LEDs

Recommended accessories

Other models and accessories → www.sick.com/L26

	Brief description	Туре	Part no.		
Connection m	Connection modules				
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A $$	IOLA2US-01101 (SiLink2 Master)	1061790		
Universal bar	Universal bar clamp systems				
4	Plate A for universal clamp bracket, steel, zinc coated, Universal clamp (2022726), mounting hardware	BEF-KHS-A01	2022458		
	Plate NO4 for universal clamp, steel, Zinc plated steel (sheet), Zinc die cast (clamping bracket), Universal clamp (5322626), mounting hardware	BEF-KHS-N04	2051610		

SAFETY SINGLE-BEAM SENSORS

	Brief description	Туре	Part no.		
Device prot	Device protection (mechanical)				
1	Protective housing for W26, W27-3 and mounting rods with diameter 12 mm 20 mm, Zinc plated steel (protective housing), Zinc die cast (clamping bracket), Univer- sal clamp BEF-KHS-KH1 (2022726), mounting hardware	BEF-SG-W27	2039601		
Mounting b	rackets and plates				
A	Mounting bracket with articulated arm for W11-2, W27, Dx50, steel, zinc coated, mounting hardware included	BEF-WN-MULTI	2064469		
ł	Mounting bracket with articulated arm, steel, zinc coated, mounting hardware included	BEF-WN-MULTI2	2093945		
	Mounting bracket, steel, zinc coated, mounting hardware included	BEF-WN-W23	2019085		
ł	Mounting bracket with hinged arm, steel, zinc coated, mounting hardware included	BEF-WN-W27	2009122		
Plug conne	ctors and cables				
N O	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14-050VB3XLEAX	2096235		
Sensor Inte	gration Gateway				
14.000 A	 Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) Logic editor: yes Communication interface: IO-Link, USB, Ethernet, PROFINET, REST API Product category: IO-Link Master 	SIG200-0A0412200	1089794		
disease say	 Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) Logic editor: yes Communication interface: IO-Link, USB, Ethernet, REST API Product category: IO-Link Master 	SIG200-0A0G12200	1102605		

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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