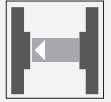


Safety thru-beam sensor

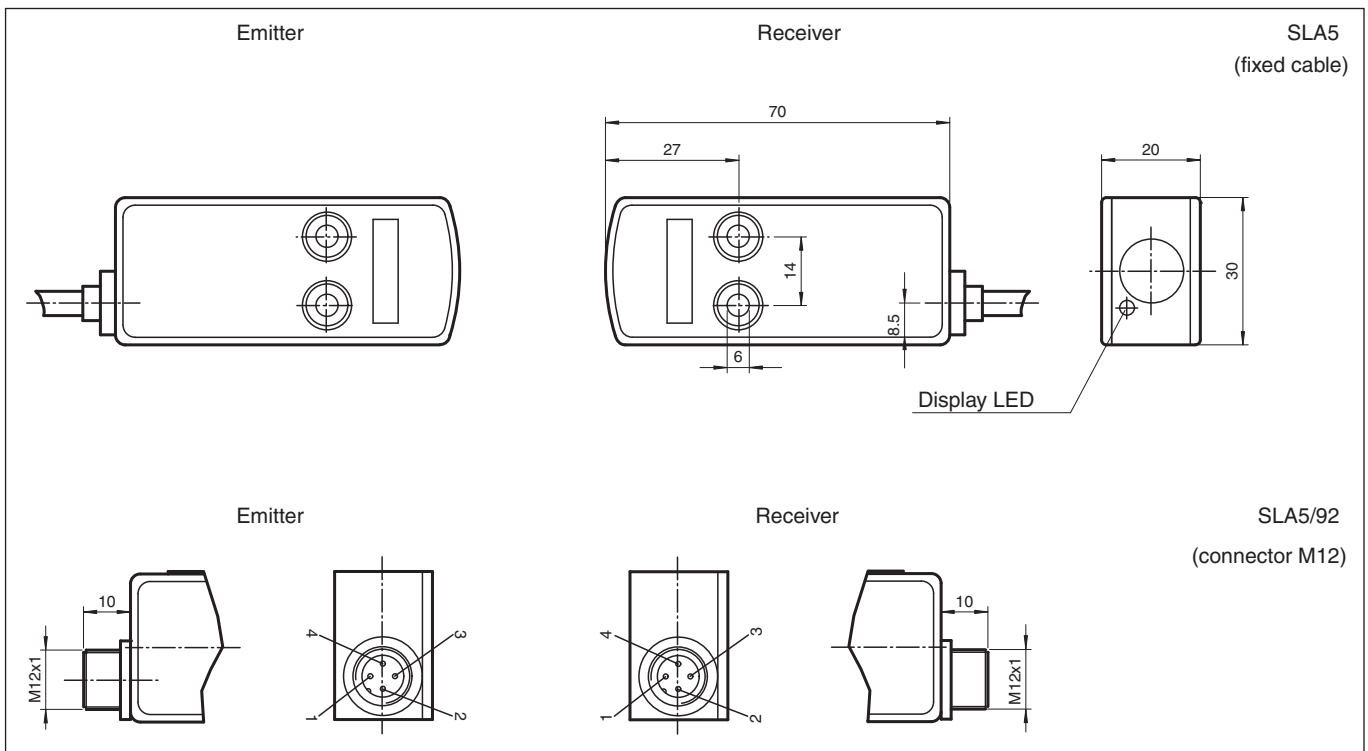
SLA5/92



- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Red transmission light
- Clearly visible LED functional display and pre-fault indicator on the receiver
- Sturdy housing
- Operation on control units of SB4 (SafeBox)



Dimensions



Technical Data

System components	
Emitter	SLA5-T/92
Receiver	SLA5-R/92
General specifications	
Effective detection range	0 ... 5 m
Number of protective field beams	1

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Technical Data

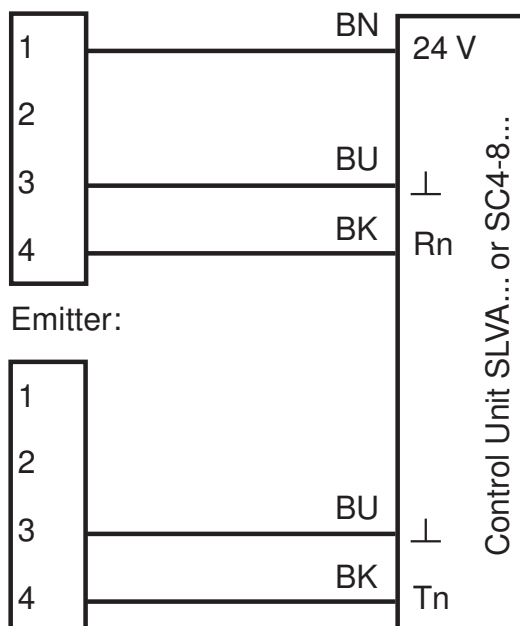
Light source		LED
Light type		modulated visible red light
Tests		IEC/EN 61496
Safety type according to IEC/EN 61496		4
Marking		CE
Target size		static: 10 mm dynamic: 30 mm (at $v = 1.6$ m/s of the obstacle)
Angle of divergence		$< 5^\circ$
Functional safety related parameters		
Safety Integrity Level (SIL)		SIL 3
Performance level (PL)		PL e
Category		Cat. 4
Mission Time (T_M)		20 a
PFH _d		4.4 E-10
Type		4
Indicators/operating means		
Function indicator		LED yellow/green in receiver: off: Interruption yellow: transmission green: reception with sufficient stability control
Pre-fault indicator		LED functional display yellow
Electrical specifications		
Operating voltage	U _B	Power supply via control unit
Conformity		
Functional safety		ISO 13849-1
Product standard		EN 61496-1 ; IEC 61496-2
Approvals and certificates		
CE conformity		CE
CCC approval		CCC approval / marking not required for products rated ≤ 36 V
Approvals		TÜV
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Storage temperature		-20 ... 70 °C (-4 ... 158 °F)
Relative humidity		max. 95 %, not condensing
Mechanical specifications		
Degree of protection		IP65
Connection		M12 connector, 4-pin
Material		
Housing		Plastic, PC, RAL 1021 (yellow)
Optical face		plastic lens
Mass		Per 95 g

Release date: 2020-03-20 Date of issue: 2020-10-06 Filename: 114406_eng.pdf

Connection

Design with connector plug

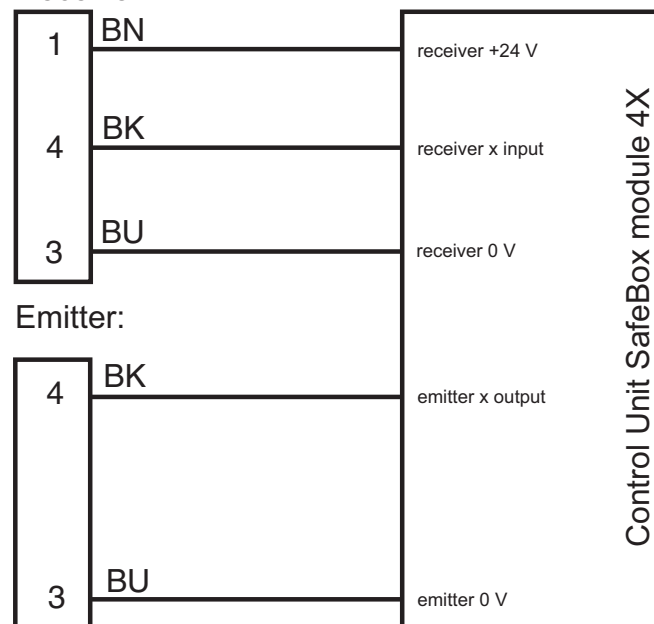
Receiver:



Emitter:

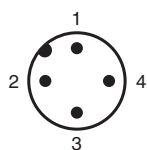
Design with connector plug

Receiver:



Emitter:

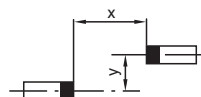
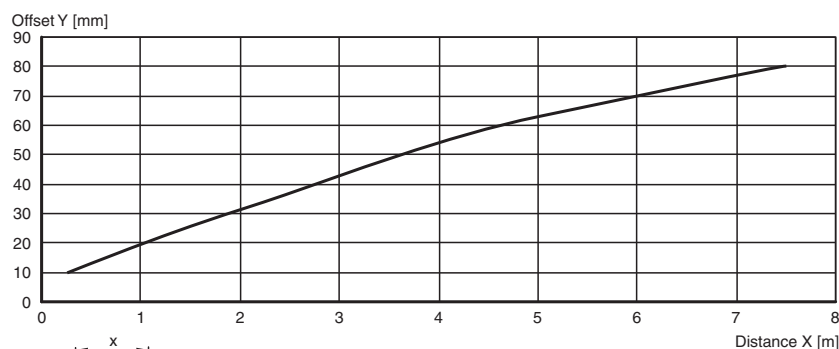
Connection Assignment

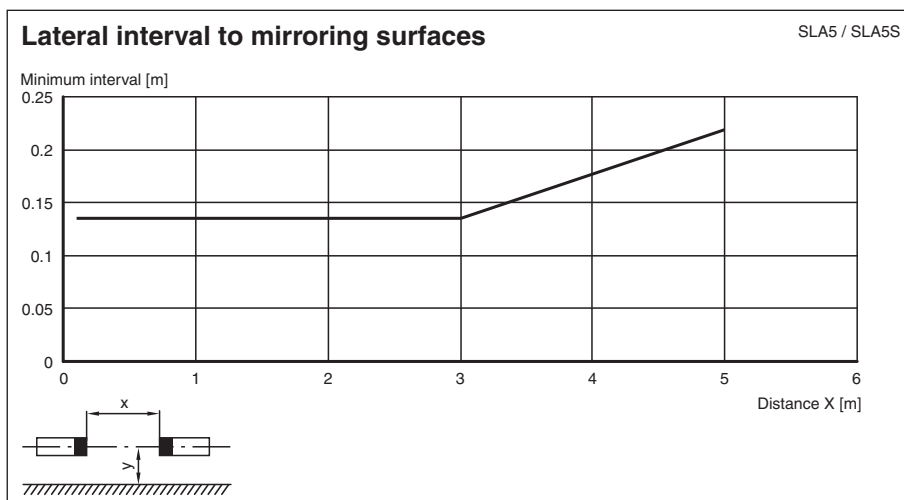
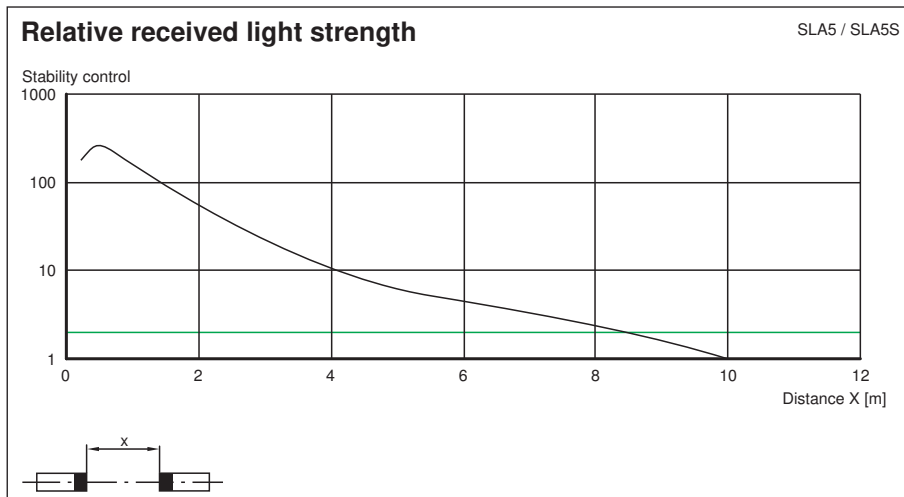


Characteristic Curve

Characteristic response curve

SLA5 / SLA5S





Matching system components

	SB4-OR-4XP-B-4159	Safety control unit
	SB4-OR-4XP	Safety control unit
	SB4-OR-4XP-B	SB4 series safety control unit with 1 optional module slot for functional enhancement
	SB4-OR-4XP-B-B	SB4 series safety control unit with optional module slots for functional enhancement
	SB4-OR-4XP-B-B-B	SB4 series safety control unit with optional module slots for functional enhancement
	SB4-OR-4XP-B-B-B-B	SB4 series safety control unit with optional module slots for functional enhancement
	SB4-OR-4XP-B-B-B-B-B	SB4 series safety control unit with optional module slots for functional enhancement
	SB4-OR-4XP-B-4158	Safety control unit
	SB4-OR-4XP-3819	Safety control unit

Matching system components

	SB4-OR-4XP-4M	Safety control unit
	SB4-OR-4XP-4MD	Safety control unit
	SB4-OR-4XP-4M-4136	Safety control unit of series SB4
	SB4-OR-4XP-4X	Safety control unit
	SB4-OR-4XP-4X-3819	Safety control unit
	SB4-OR-4XP-4136	Safety control unit of series SB4

Accessories

	SLA-1-M	Deviation mirror
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Accessories

Additional accessories can be found in the Internet.

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