



Model Number

SLPC8-2

with 2 separate fail-safe semiconductor outputs

Features

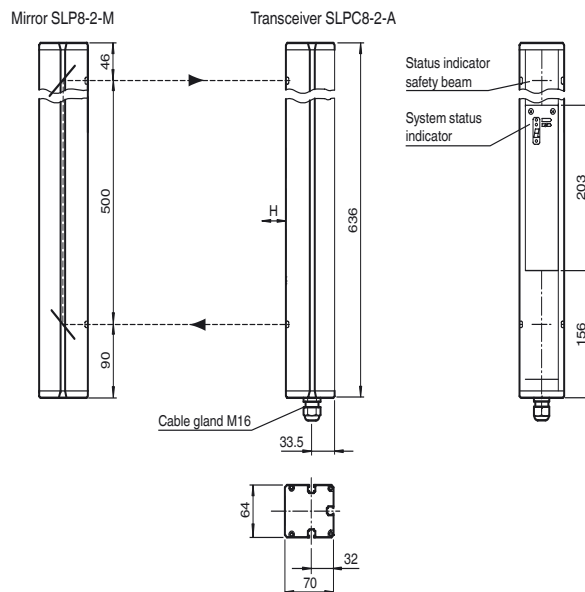
- Sensing range up to 8 m
- 2-radial design
- Beam spacing 500 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Minimum wiring expense due to transceiver with passive mirror column
- Red transmission light
- Usable with or without start/restart disable
- Integrated relay monitor
- 7-segment diagnostic display
- Pre-fault indication
- OSSD outputs as semiconductor or relay outputs

Accessories

PG SLP-2

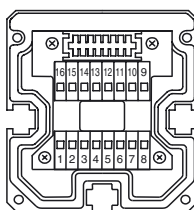
Protective glass panes for SLP series

Dimensions



Electrical connection

Transceiver SLPC8-2-A



Transceiver SLPC... (semiconductor output)				Transceiver SLPC.../31 (relay output)			
1	-	Functional earth		1	-	Functional earth	
2	-	0 V		2	-	0 V	
3	-	24 V		3	-	24 V	
4	-	n.c.		4	-	n.c.	
5	-	-		5	-	-	
6	-	+		6	-	+	
7	-	OSSD 1		7	-	OSSD 1	
8	-	OSSD 2		8	-	OSSD 2	
9	-	Input, Relay monitor		9	-	Input, Relay monitor	
10	-	Input, Start release		10	-	Input, Start release	
11	-	Input, Reset		11	-	Input, Reset	
12	-	PNP-output, Soiled optics		12	-	PNP-output, Soiled optics	
13	-	n.c.		13	-	n.c.	
14	-	PNP-output, Startup readiness		14	-	PNP-output, Startup readiness	
15	-	PNP-output, Indicator OSSD OFF		15	-	PNP-output, Indicator OSSD OFF	
16	-	PNP-output, Indicator OSSD ON		16	-	PNP-output, Indicator OSSD ON	

Technical data**General specifications**

Effective detection range	0.2 ... 8 m
Light source	LED
Light type	modulated visible red light
Approvals	TÜV
Tests	IEC/EN 61496
Safety type according to IEC/EN 61496	4
Marking	CE
Target size	static: 32 mm dynamic: 50 mm (at v = 1.6 m/s of the obstacle)
Beam spacing	500 mm
Number of beams	2
Operating mode	Start/restart disable, relay monitor,
Angle of divergence	< 5 °

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	3.54 E-9
Type	4

Indicators/operating means

Diagnostics display	7-segment display
Function display	LED red: per receiver channel off: interruption flashes: receiver continuously on: reception with sufficient stability control on the front plate: LED red: OSSD off LED green: OSSD on
Pre-fault indication	LED red next to receiver flashes
Controls	10 DIP switch in transceiver terminal compartment

Electrical specifications

Operating voltage	U _B	24 V DC -15% / +25% , galvanically isolated
No-load supply current	I ₀	max. 250 mA
Protection class		III

Input

Activation current	approx. 10 mA
Activation time	0.03 ... 1 s
Test input	Reset-input for system test
Function input	Relay monitor, start release

Output

Output of the pre-fault indication	1 PNP, +U _B -2 V, max. 300 mA
Safety output	2 separated fail safe semiconductor outputs
Signal output	1 PNP each, max. 300 mA for start readiness, OSSD on, OSSD off
Switching voltage	Operating voltage -2 V
Switching current	max. 0.5 A
Response time	20 ms

Ambient conditions

Ambient temperature	0 ... 50 °C (32 ... 122 °F)
Storage temperature	-20 ... 70 °C (-4 ... 158 °F)
Relative humidity	max. 95 %, not condensing

Mechanical specifications

Protection degree	IP65
Connection	M16 cable gland , terminal compartment with cage-terminals
Connection options	Further electrical connection options on request: Connector DIN 43 651 Hirschmann, emitter: 6-pin+PE, receiver: 11-pin+PE
Material	
Housing	extruded aluminum profile, RAL 1021 (yellow) coated
Optical face	Plastic pane
Mass	Per 2300 g

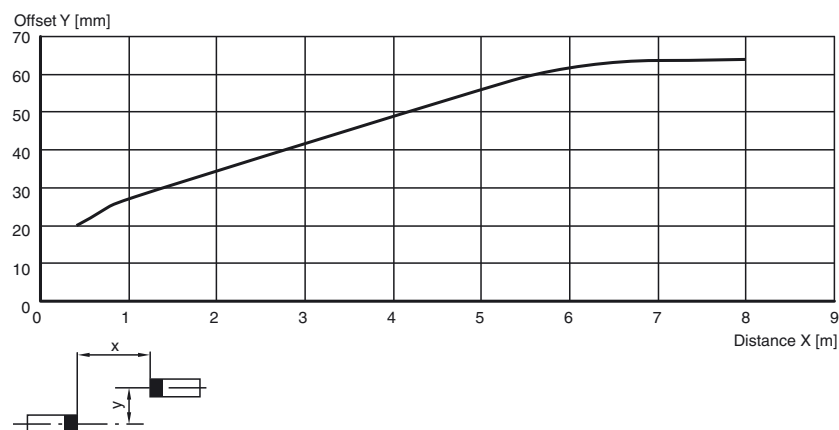
General information

System components	
Transceiver	SLPC8-2-A
Mirror pillar	SLP8-2-M

Curves/Diagrams

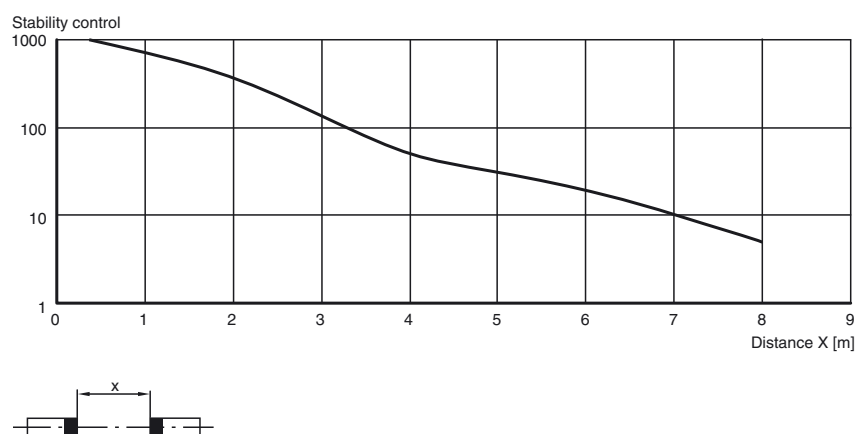
Characteristic response curve

SLP8



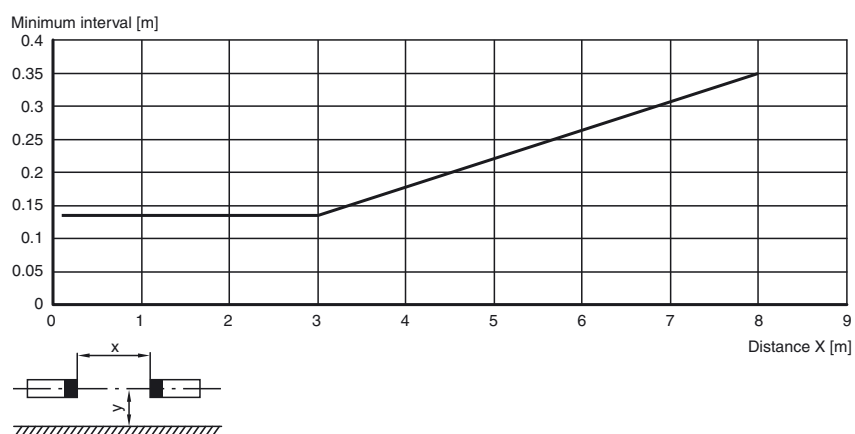
Relative received light strength

SLP8



Lateral interval to mirroring surfaces

SLP8



System accessories

- Mounting set MS SLP
- Profile alignment aid PA SLP/SLC
- Laser alignment aid BA SLP
- Ground pillar UC SLP/SLC
- Housing for pillar
Enclosure UC SLP/SLC
- Collision protector
Damping UC SLP/SLC
- Redirection mirror for multi-side protection of hazardous areas
SLP-2-M