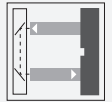




Safety light grid with integrated control unit

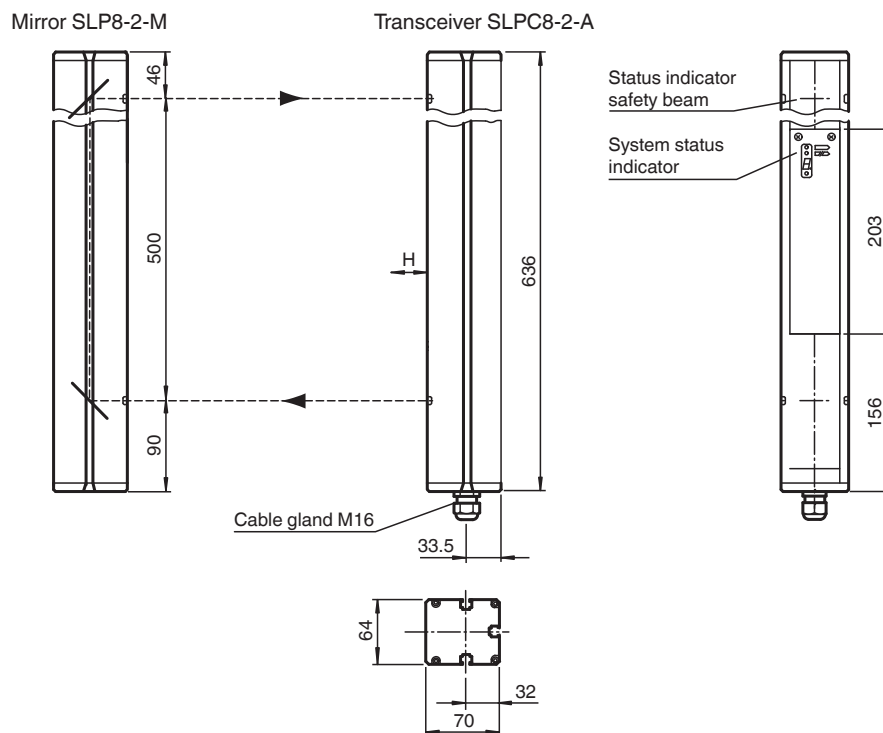
SLPC8-2/31



- 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



Dimensions



Technical Data

System components

Transceiver	SLPC8-2-A/31
Mirror pillar	SLP8-2-M

General specifications

Effective detection range	0.2 ... 8 m
Light source	LED
Light type	modulated visible red light

Technical Data

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			
Performance level (PL)		PL e	
Category		Cat. 4	
Mission Time (T _M)		20 a	
PFH _d		3.54 E-9	
B _{10d}		see instruction manuals	
Type		4	
Indicators/operating means			
Diagnostics indicator		7-segment display	
Function indicator		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 indicator		LED red next to receiver flashes	
Control elements		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 , IEC 61140	
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			
Pre-fault indication output		1 PNP, +U _B -2 V, max. 300 mA	
Safety output		2 relay outputs, force-guided NO-contact	
Signal output		1 PNP each, max. 300 mA for start readiness, OSSD on, OSSD off	
Switching voltage		20 ... 60 V DC, 12 ... 25 V AC _{rms}	
Switching current		0.01 ... 2 A	
Switching power		100 VA	
Response time		40 ms	
Conformity			
Functional safety		ISO 13849-1	
Product standard		EN 61496-1 ; IEC 61496-2	
Approvals and certificates			
CE conformity		CE	
Approvals		TÜV SÜD	
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			
Degree of protection		IP65	

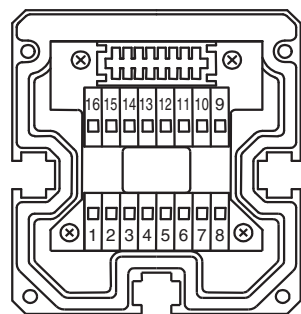
Release date: 2020-08-27 Date of issue: 2020-10-06 Filename: 111852_eng.pdf

Technical Data

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

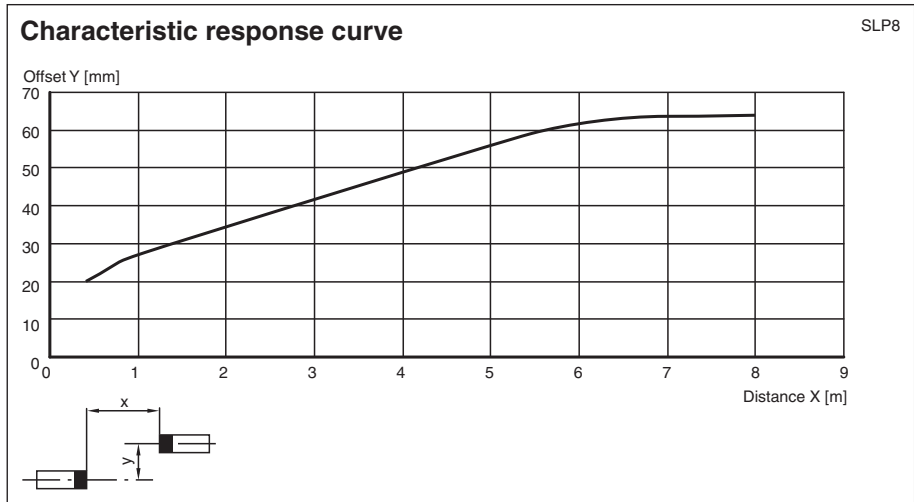
Connection

Transceiver SLPC8-2-A

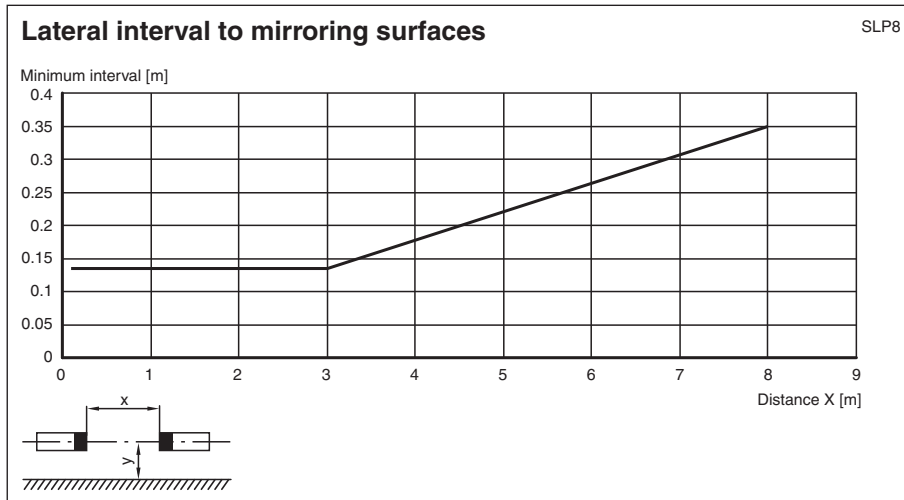
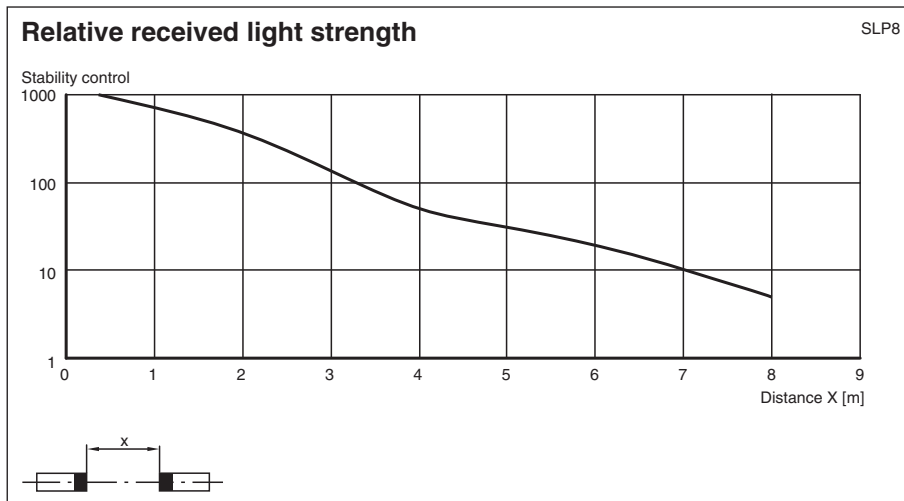


Transceiver SLPC... (semiconductor output)	Transceiver SLPC.../31 (relay output)
1 - Functional earth 2 - 0 V 3 - 24 V	1 - Functional earth 2 - 0 V 3 - 24 V
4 - n.c. 5 - - 6 - + 7 - OSSD 1 8 - OSSD 2	4 - 5 - 6 - 7 - 8 -
	9 - Input, Relay monitor 10 - Input, Start release 11 - Input, Reset 12 - PNP-output,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

Characteristic Curve



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Accessories

	PG SLP-2	Protective glass panes for SLP series
	PA SLP/SLC	Alignment aid for SLP and SLC series profile light grids
	MS SLP	Mounting bracket for Light grid
	Damping UC SLP/SLC	Shock absorber as ramming protector for all series SLP/SLC devices
	Enclosure UC SLP/SLC	Housing for floor stand
	UC SLP/SLC	Floor stand for all series SLP/SLC devices
	SLP-2-M	Deviation mirror for SLP