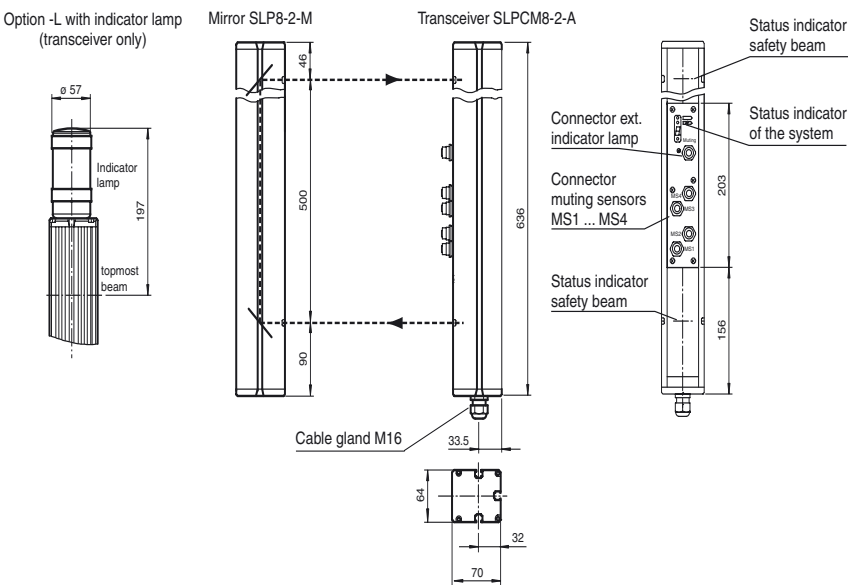




Dimensions



Model Number

SLPCM8-2/31

Safety light grid with integrated control unit
with 2 relay outputs with two force-guided normally open contacts

Features

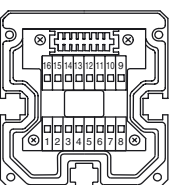
- Detection range up to 8 m
- 2-Radial design
- Beam spacing 500 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Minimum wiring expense due to transceiver with passive mirror column
- Red transmission light
- Usable with or without start/restart disable
- Sequential and parallel muting in various operating modes
- Emergency muting for the correction of the material jam
- Integrated relay monitor
- 7-segment diagnostic display
- Pre-fault indication
- OSSD outputs as semiconductor or relay outputs

Accessories

PG SLP-2
Mounting aid Safety

Electrical connection

Transceiver SLPCM8-2-A



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

Release date: 2009-12-14 11:23 Date of issue: 2009-12-14 11:4865_ENG.xml

Technical data**General specifications**

Effective detection range	0.2 ... 8 m
Light source	LED
Light type	red, modulated light
Approvals	TÜV
Tests	IEC/EN 61496
Safety type according to IEC/EN 61496	4
Marking	CE
Obstacle 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, muting operating modes
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

Indicators/operating means

Diagnosis 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 LED yellow: types of muting operation
Pre-fault indication	LED red next to receiver flashes
Operating elements	10 DIP switch in transceiver terminal compartment

Electrical specifications

Operating voltage	U _B	24 V DC -15 % / +25 % , electrically 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, muting sensors (max. 4)

Output

Output of the pre-fault indication	1 PNP, +U _B -2 V, max. 300 mA
Safety output	2 relay outputs, compelled connection NO-contact
Signal output	1 PNP each, max. 300 mA for start readiness, OSSD on, OSSD off, muting lamp
Switching voltage	20 ... 60 V DC, 12 ... 25 V AC _{rms}
Switching current	0.01 ... 2 A
Switch power	100 VA
Response time	40 ms

Ambient conditions

Ambient temperature	0 ... 50 °C (273 ... 323 K)
Storage temperature	-20 ... 70 °C (253 ... 343 K)
Relative humidity	max. 95 %, not condensing

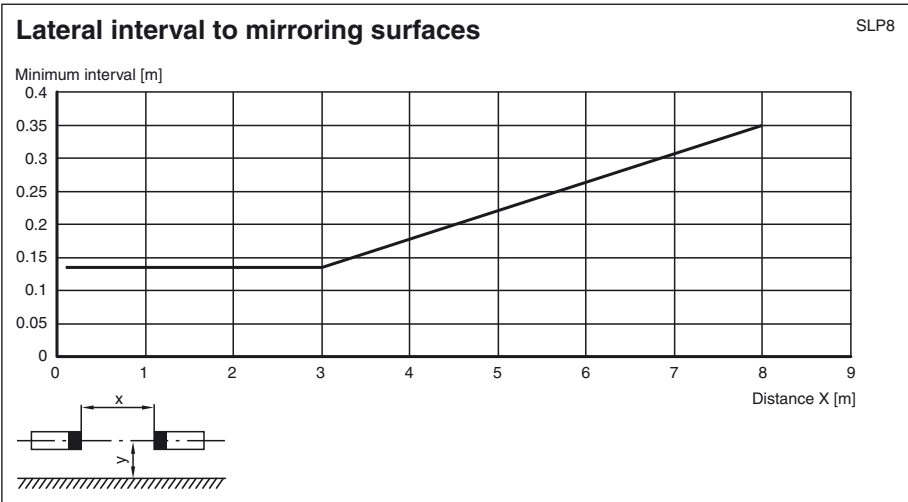
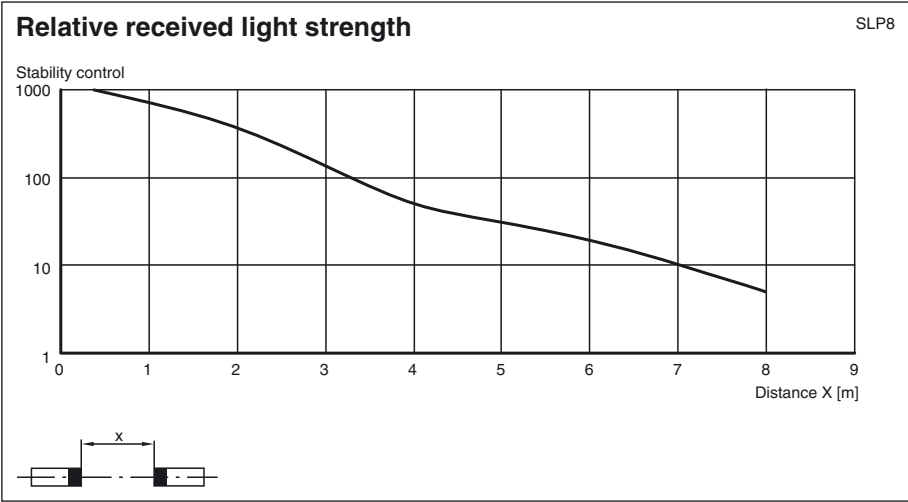
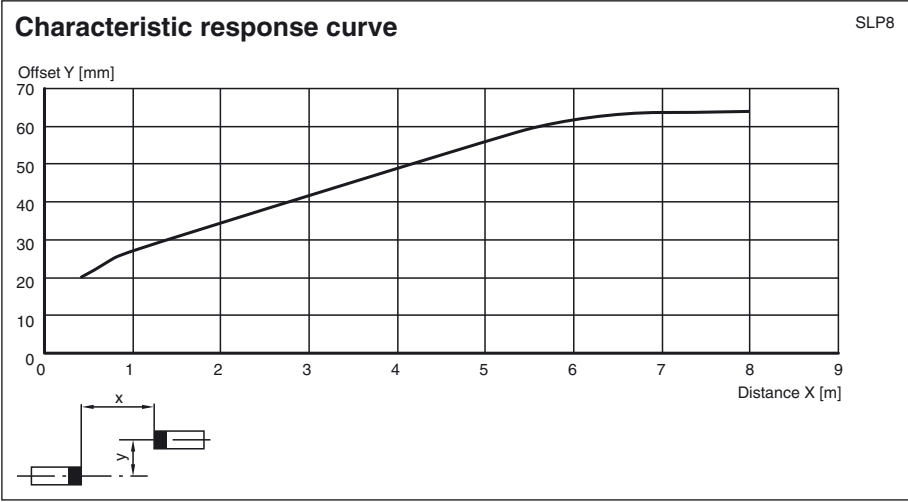
Mechanical specifications

Protection degree	IP65
Connection	Cable screwed connection M16 , terminal compartment with cage-terminals, M12-connector for emitter, muting lamp as well as other muting sensors
Connection options	Further electrical connection options on request: Connector DIN 43 651 Hirschmann, emitter: 6-pin+PE, receiver: 11-pin+PE
Material	
Housing	aluminium extruded structural profile, RAL 1021 (yellow) coated
Optical face	Plastic pane
Mass	Per 2300 g

General information

System components	
Transceiver	SLPCM8-2-A/31
Mirror pillar	SLP8-2-M

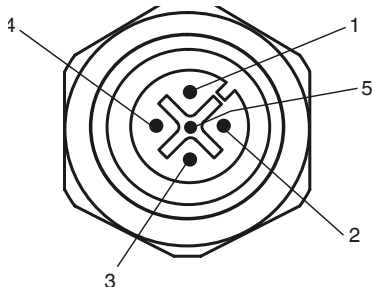
Curves/Diagrams




Release date: 2009-12-14 11:23 Date of issue: 2009-12-14 11:4865_ENG.xml

Additional information

Socket assignment on the front side of the device



Indicator lamp control 

Socket	Function
1	OSSD on
2	OSSD off
3	0 V
4	Readiness for startup
5	Muting (monitored)

Muting sensor inputs MS1 - MS4

Socket	Function
1	+ 24 V
3	0 V
4	Sensor signal

System accessories

- Mounting set MS SLP
- Profile alignment aid PA SLP/SPC
- 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 SLP-2-M

Release date: 2009-12-14 11:23 Date of issue: 2009-12-14 11:4865_ENG.xml