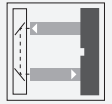




Safety light grid with integrated control unit

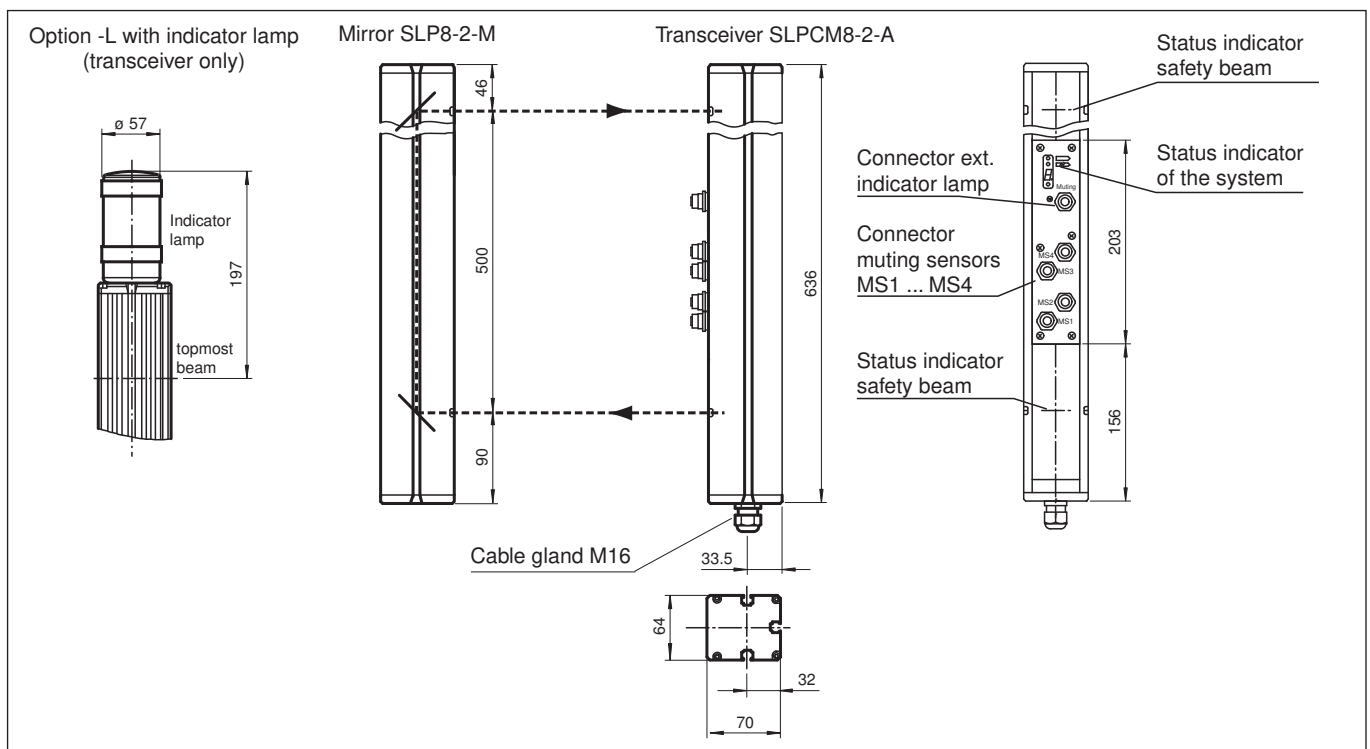


SLPCM8-2

- 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
- 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



Dimensions



Technical Data

System components	
Transceiver	SLPCM8-2-A
Mirror pillar	SLP8-2-M
General specifications	

Release date: 2020-04-27 Date of issue: 2020-04-27 Filename: 114873_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

Effective detection range		0.2 ... 8 m
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: 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		
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 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 LED yellow: types of muting operation
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, muting sensors (max. 4)
Output		
Pre-fault indication output		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, muting lamp
Switching voltage		Operating voltage -2 V
Switching current		max. 0.5 A
Response time		20 ms
Conformity		
Functional safety		ISO 13849-1
Product standard		EN 61496-1 ; IEC 61496-2
Approvals and certificates		
CE conformity		CE
Approvals		TÜV SÜD
USA		TÜV NRTL mark
Ambient conditions		
Ambient temperature		0 ... 50 °C (32 ... 122 °F)
Storage temperature		-20 ... 70 °C (-4 ... 158 °F)
Relative humidity		max. 95 %, not condensing

Release date: 2020-04-27 Date of issue: 2020-04-27 Filename: 114873_eng.pdf

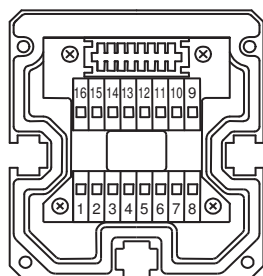
Technical Data

Mechanical specifications

Degree of protection	IP65
Connection	M16 cable gland , 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	extruded aluminum profile, RAL 1021 (yellow) coated
Optical face	Plastic pane
Mass	Per 2300 g

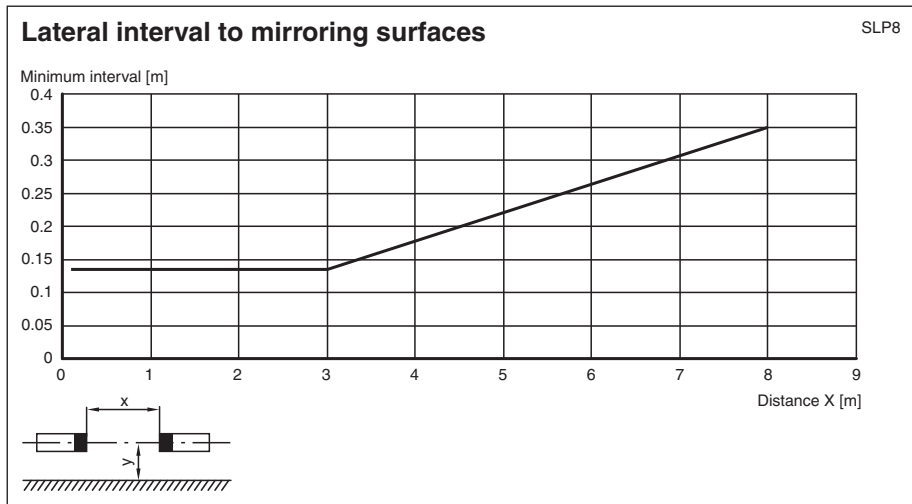
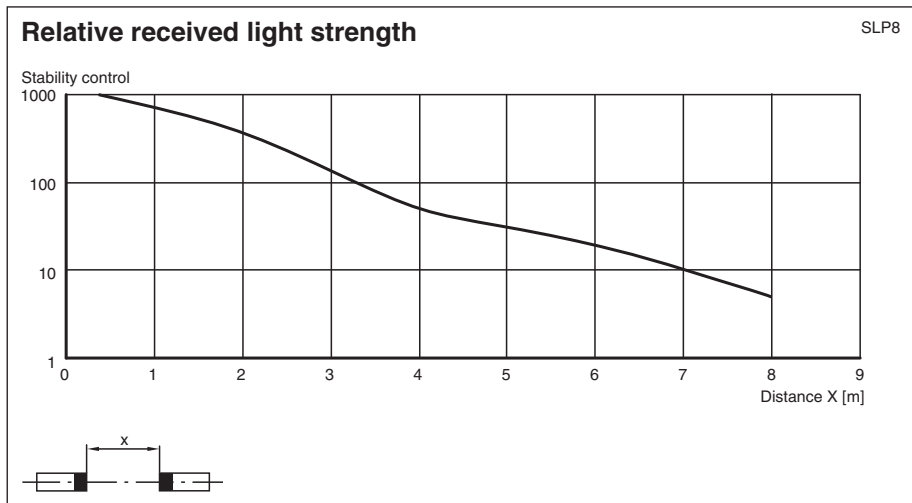
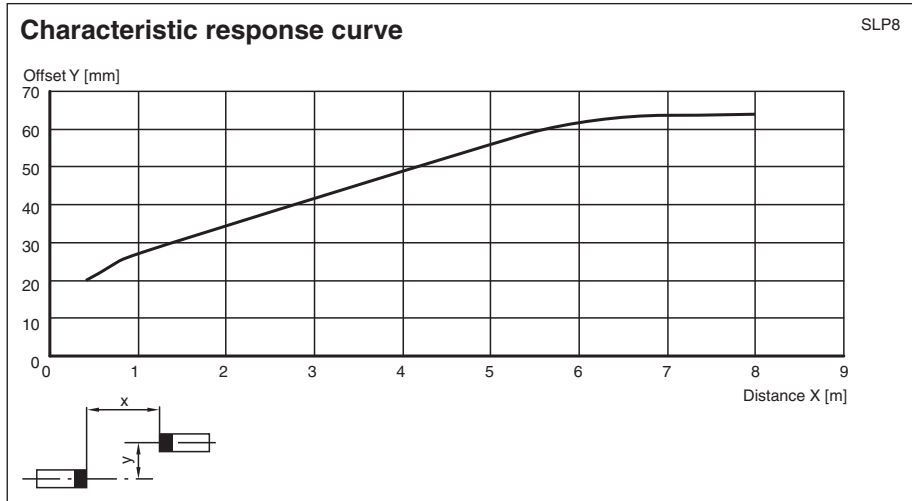
Connection

Transceiver SLPCM8-2-A



Transceiver SLPCM... (semiconductor output)	Transceiver SLPCM.../31 (Relay output)
	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 - PNP-output, Muting lamp 14 - PNP-output, Startup readiness 15 - PNP-output, Meldung OSSD AUS 16 - PNP-output, Indicator OSSD ON

Characteristic Curve



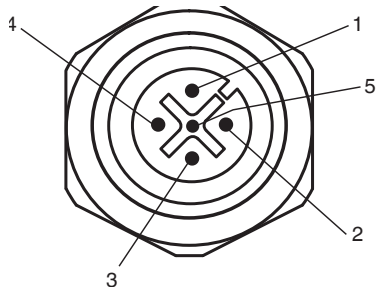
Accessories

	PG SLP-2	Protective glass panes for SLP series
---	-----------------	---------------------------------------

Release date: 2020-04-27 Date of issue: 2020-04-27 Filename: 114873_eng.pdf

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