







#### **Model Number**

#### SLPCM30-2

Safety light grid with integrated control

with 2 separate fail-safe semiconductor outputs

## **Features**

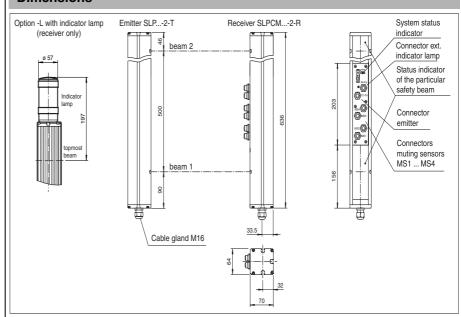
- Detection range up to 30 m
- 2-Radial design
- Beam spacing 500 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Red transmission light
- Usable with or without start/restart
- Sequential and parallel muting in various operating modes
- Emergency muting for the correction of the material jam
- Integrated relay monitor
- 7-segment diagnostic display
- Integrated function display
- Pre-fault indication
- OSSD outputs as semiconductor or relay outputs

# **Accessories**

# PG SLP-2

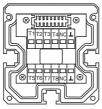
Mounting aid Safety

## **Dimensions**

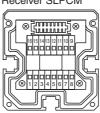


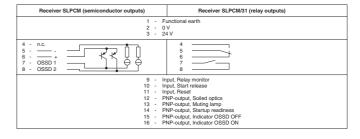
## **Electrical connection**

#### **Emitter SLP**







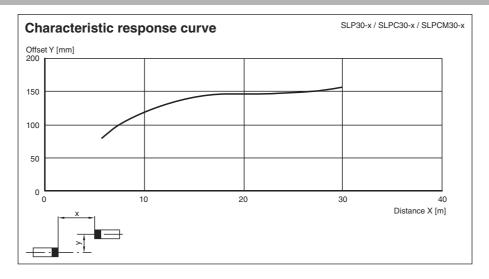


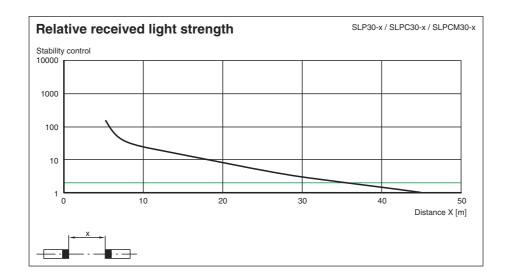
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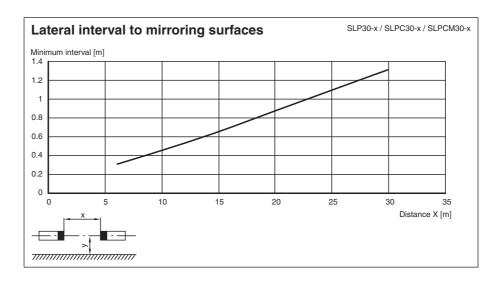
Technical data	
General specifications	
Effective detection range	6 30 m
Light source	LED
Light type	red, modulated light
Approvals	τϋν
Tests	IEC/EN 61496
Safety type according to IEC/EN 61496	4
Marking	CE
Obstacle size	static: 32 mm dynamic: 50 mm (at $v = 1.6$ m/s of the obstacle)
Beam spacing	500 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 <sub>M</sub> )	20 a
PFH <sub>d</sub>	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
Pre-fault indication	LED yellow: types of muting operation  LED red next to receiver flashes
Operating elements	10 DIP switch in receiver terminal compartment
Electrical specifications	
Operating voltage U <sub>B</sub>	24 V DC -15 % /+25 %, electrically isolated
No-load supply current I <sub>0</sub>	max. 250 mA
Protection class Input	
Activation current	approx 10 mA
	approx. 10 mA 0.03 1 s
Activation time	
Test input	Reset-input for system test  Relay monitor, start release, muting sensors (max. 4)
Function input	neray mornior, start release, muting sensors (max. 4)
Output	ADNO 11 av access
Output of the pre-fault indication	1 PNP, +U <sub>B</sub> -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
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	
Emitter	SLP30-2-T
Receiver	SLPCM30-2-R

Release date: 2009-12-14 11:22 Date of issue: 2009-12-14 114884\_ENG.xml

# **Curves/Diagrams**







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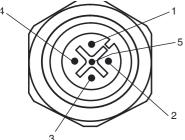
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# **Additional information**

Socket assignment on the front side of the device

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Indicator lamp control \_\_\_\_\_\_

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

## T1 - T4 transmitter control

Socket	Function
1	Transmitter channel 1
2	Transmitter channel 2
3	0 V

## 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/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 SLP-2-M

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