

## **Model Number**

### SLPCM30-3/31

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Safety light grid with integrated control unit

with 2 relay outputs with two force-guided normally open contacts

## **Features**

- Detection range up to 30 m
- 3-Radial design
- · Beam spacing 400 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- 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
- · Integrated function display
- Pre-fault indication
- OSSD outputs as semiconductor or relay outputs

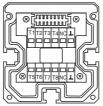
### **Accessories**

## PG SLP-3

Mounting aid Safety

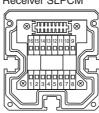
# **Electrical connection**

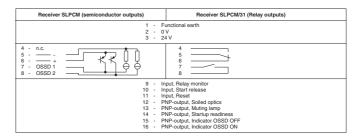
### **Emitter SLP**



T2 - Emitter channel : T3 - Emitter channel : L - 0 V







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Technical data	
General specifications	
Effective detection range	6 30 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	400 mm
Number of beams	3
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 LED yellow: types of muting operation
Pre-fault indication	LED red next to receiver flashes
Operating elements	10 DIP switch in receiver terminal compartment
Electrical specifications	10 Bit Official In 1000/10 Communication (Compartition)
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
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 <sub>R</sub> -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 <sub>rms</sub>
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	23
Housing	aluminium extruded structural profile, RAL 1021 (yellow) coated
Optical face	Plastic pane
Mass	Per 3400 g
General information	•
System components	
Emitter	SLP30-3-T
Receiver	SLPCM30-3-B/31

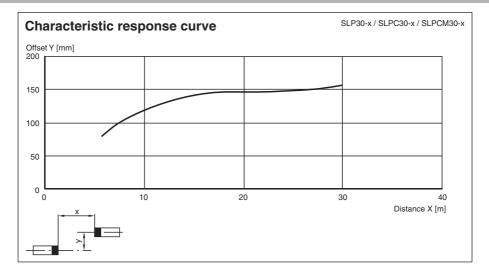
Release date: 2009-12-14 11:22 Date of issue: 2009-12-14 114879\_ENG.xml

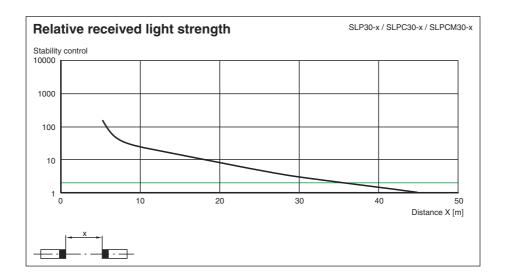
Receiver

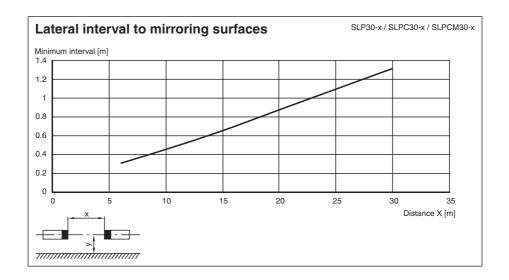
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SLPCM30-3-R/31

# **Curves/Diagrams**







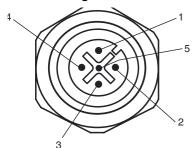
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# **Additional information**

## 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)

## T1 - T4 transmitter control

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

## 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-3-M

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