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Model Number

SLPCM10-4/31

Safety light grid with integrated control

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

Features

- Detection range up to 10 m
- 4-Radial design
- Beam spacing 300 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

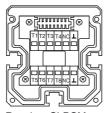
PG SLP-4

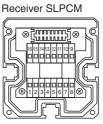
Mounting aid Safety

Dimensions Option -L with indicator lamp Emitter SLP...-4-T Receiver SLPCM...-4-R Status indicator of the system Status indicator of the particular Connector safety beam indicator lamp Connector 300 emitter Connector muting sensors MS1 ... Ms4 Cable gland M16

Electrical connection

Emitter SLP





Receiver SLPCM (semiconductor outputs)	Receiver SLPCM/31 (Relay outputs)
2 - 0	unctional earth V 4 V
4 · n.c. 5 · 7 · OSSD 1 8 · OSSD 2	4 5 6 7 8
10 - In 11 - In 12 - Pi 13 - Pi 14 - Pi 15 - Pi	put. Relay monitor put. Start rolease put. Reset NP-output, Solied optics NP-output, Muting lamp NP-output, Muting lamp NP-output, Indicator OSSD OFF NP-output, Indicator OSSD OFF NP-output, Indicator OSSD ON

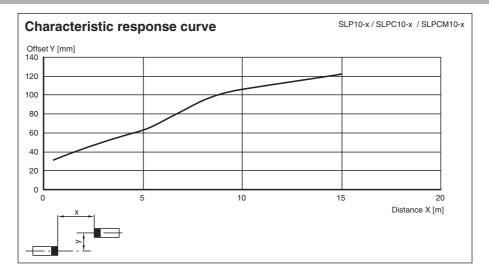
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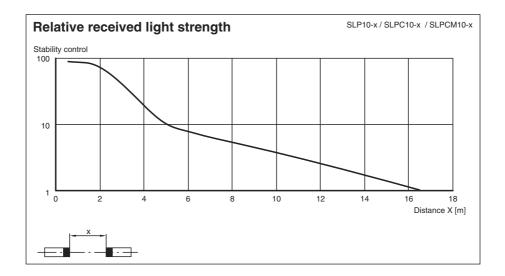
Technical data	
General specifications	
Effective detection range	0.2 10 m
Light source	LED
Light type	red, modulated light
Approvals	τΰν
Tests	IEC/EN 61496
Safety type according to IEC/EN 61496	
Marking	CE
Obstacle size	static: 32 mm
0,50,40,10 0,120	dynamic: 50 mm (at v = 1.6 m/s of the obstacle)
Beam spacing	300 mm
Number of beams	4
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
_	0.04 E-0
Indicators/operating means	
Diagnosis display	7-segment display
Function display	LED red: per receiver channel off: interruption
	on menupuon flashes: receiver
	continuously on: reception with sufficient stability control
	on the front plate: LED red: OSSD off
	LED green: OSSD on
Due feeds in disease	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	
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
•	max. 95 %, not condensing
Mechanical specifications	Dos
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 3700 g
General information	<u> </u>
System components	
Emitter	SLP10-4-T
Receiver	SLPCM10-4-R/31
110001701	C. S. 1700.

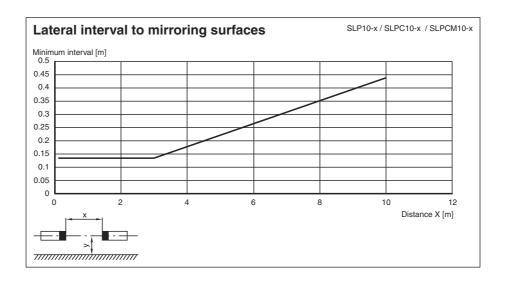
Release date: 2009-12-14 11:22 Date of issue: 2009-12-14 114864_ENG.xml

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Curves/Diagrams







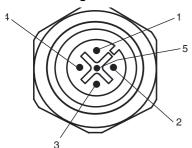
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Additional information

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
5	Transmitter channel 4

Muting sensor inputs MS1 - MS4

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

System accessories

- Mounting set MS SLC
- 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-4-M

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