







Model Number

SLPCM10-3/31

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

Features

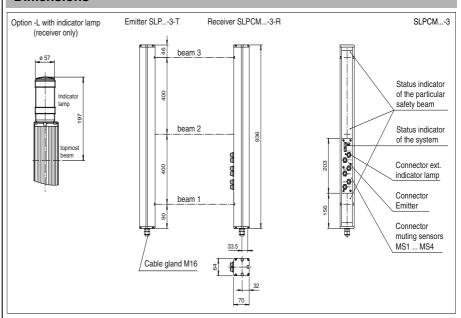
- Sensing range up to 10 m
- 3-radial design
- · Beam spacing 400 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Red transmission light
- Usable with or without start/restart disable
- Sequential and parallel muting in various operating modes
- Emergency muting for the correction of the 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

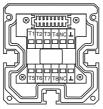
Protective glass panes for SLP series

Dimensions



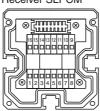
Electrical connection

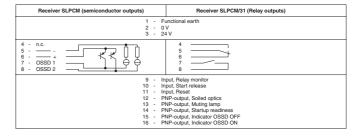
Emitter SLP



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



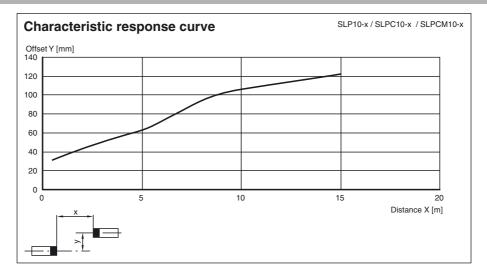


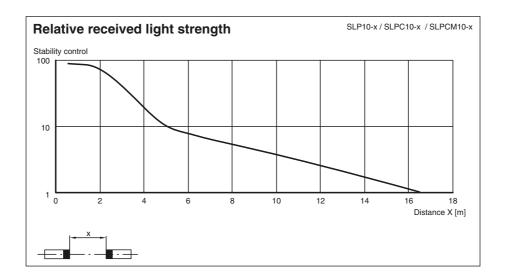


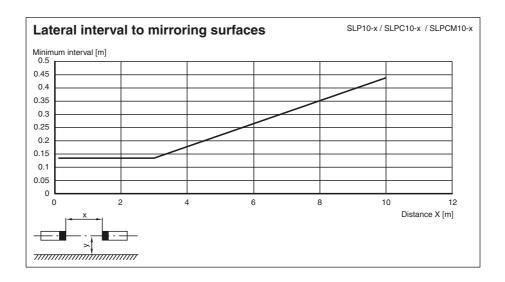
Technical data System components		
Emitter	SLP10-3-T	
Receiver	SLPCM10-3-R/31	
General specifications	OLI OMIO OTROT	
Effective detection range	0.2 10 m	
Light source	LED	
Light type	modulated visible red light	
Tests	IEC/EN 61496	
Safety type according to IEC/EN 61496	4	
Marking	CE	
Target size	static: 32 mm dynamic: 50 mm (at $v = 1.6$ m/s of the obstacle)	
Beam spacing	400 mm	
Number of beams	3	
Operating mode	Start/restart disable, relay monitor, muting operating modes	
Angle of divergence	<5 °	
Functional safety related parameters	Di .	
Performance level (PL)	PL e	
Category Mission Time (T.)	Cat. 4 20 a	
Mission Time (T _M) PFH _d	3.54 E-9	
B _{10d}	see instruction manuals	
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 receiver 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 relay outputs, force-guided 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	
Switching power	100 VA	
Response time	40 ms	
Conformity		
Functional safety	ISO 13849-1	
Product standard	EN 61496-1 ; IEC 61496-2	
Ambient conditions		
Ambient temperature	0 50 °C (32 122 °F)	
Storage temperature	-20 70 °C (-4 158 °F)	
Relative humidity	max. 95 %, not condensing	
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 3400 g	
Approvals and certificates		
CE conformity	CE	
•		
CCC approval	CCC approval / marking not required for products rated ≤36 V TÜV	

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Curves/Diagrams

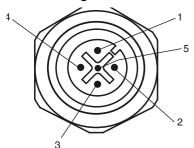






Additional information

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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