



Model Number

SLPCM65-2-L

with 2 separate fail-safe semiconductor outputs

Features

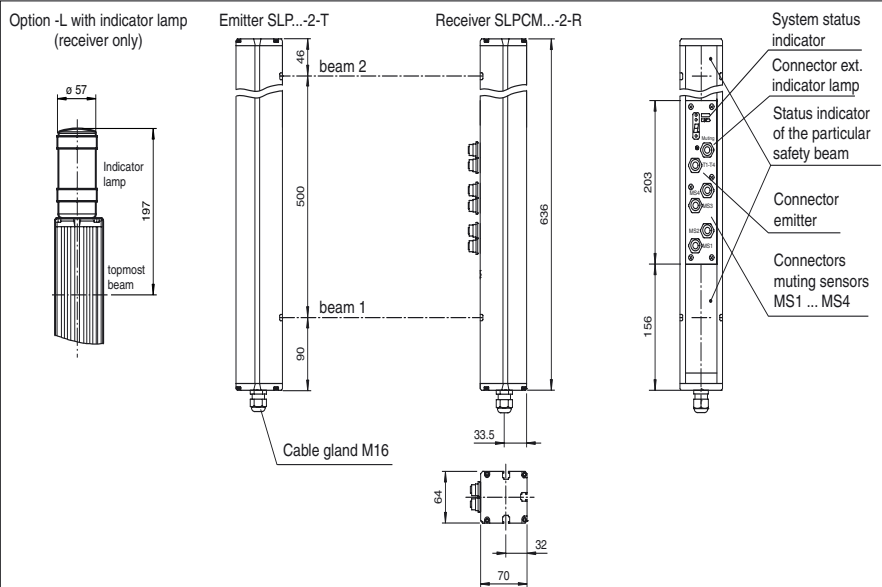
- Sensing range up to 65 m
- 2-radial design
- Beam spacing 500 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Red transmission light
- Usable with or without start/restart disable
- Sequential and parallel muting in various operating modes
- Emergency muting for the correction of the material jam
- Integrated relay monitor
- 7-segment diagnostic display
- Integrated function display
- Pre-fault indication
- OSSD outputs as semiconductor or relay outputs

Accessories

PG SLP-2

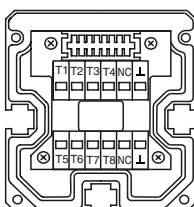
Protective glass panes for SLP series

Dimensions



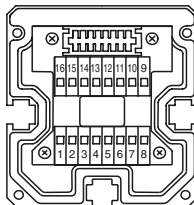
Electrical connection

Emitter SLP



- T1 - Emitter channel 1
T2 - Emitter channel 2
L - 0 V

Receiver SLPCM



Receiver SLPCM (semiconductor outputs)				Receiver SLPCM/31 (relay outputs)			
1	-	Functional earth		1	-	Functional earth	
2	-	0 V		2	-	0 V	
3	-	24 V		3	-	24 V	
4	-	n.c.		4	-	n.c.	
5	-	+		5	-	+	
6	-	-		6	-	-	
7	-	OSSD 1		7	-	OSSD 1	
8	-	OSSD 2		8	-	OSSD 2	
				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, Indicator OSSD OFF	
				16	-	PNP-output, Indicator OSSD ON	

Technical data**System components**

Emitter	SLP65-2-T
Receiver	SLPCM65-2-R-L

General specifications

Effective detection range	12 ... 65 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
Muting indicator	Indicator lamp
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 separated fail safe semiconductor outputs
Signal output	1 PNP each, max. 300 mA for startup readiness, OSSD on, OSSD off, muting lamp, signals in parallel in the lamp socket
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

Ambient conditions

Ambient temperature	0 ... 50 °C (32 ... 122 °F)
Storage temperature	-20 ... 70 °C (-4 ... 158 °F)
Relative humidity	max. 95 %, not condensing

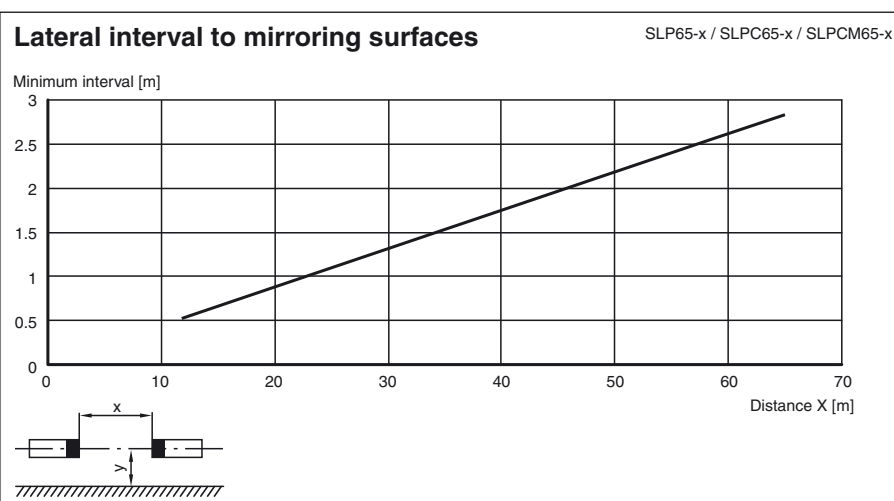
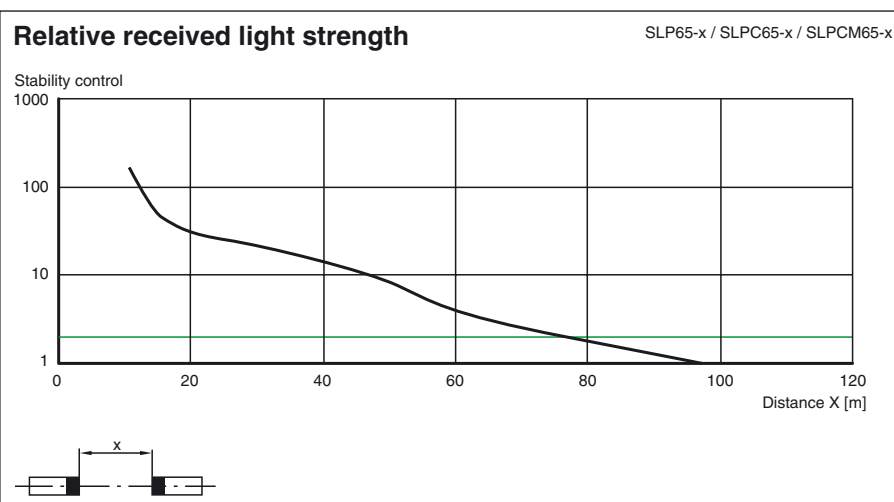
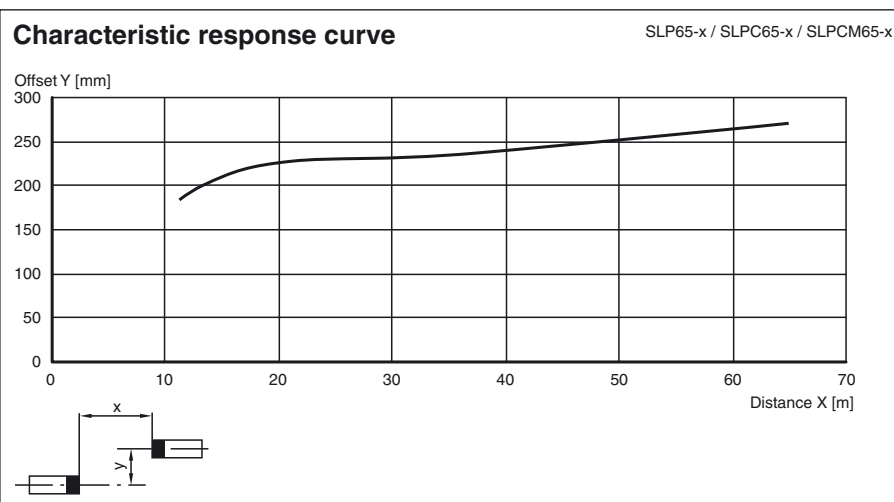
Mechanical specifications

Degree of protection	IP65
Connection	M16 cable gland , terminal compartment with cage terminals, M12 connector for transmitters, muting lamp, etc., muting sensors, lamp socket for muting lamp, etc.
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

Approvals and certificates

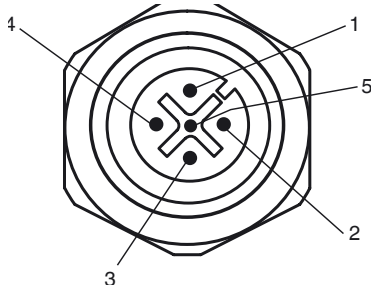
CE conformity	CE
CCC approval	CCC approval / marking not required for products rated ≤36 V
Approvals	TÜV


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

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