# Safety Light Curtain
Finger Protection

SG4-14IE105C1

Part Number

- **Completely integrated electronics**
- **Fix blanking, floating blanking and reduced resolution, cascading, muting**
- **Serial interface**

These safety light curtains are distinguished by their compact design. They are also equipped with numerous auxiliary functions, allowing for adaptation to the respective application in a highly individualized fashion. The adequate mounting angle BEF-SET-33 is included in the delivery.
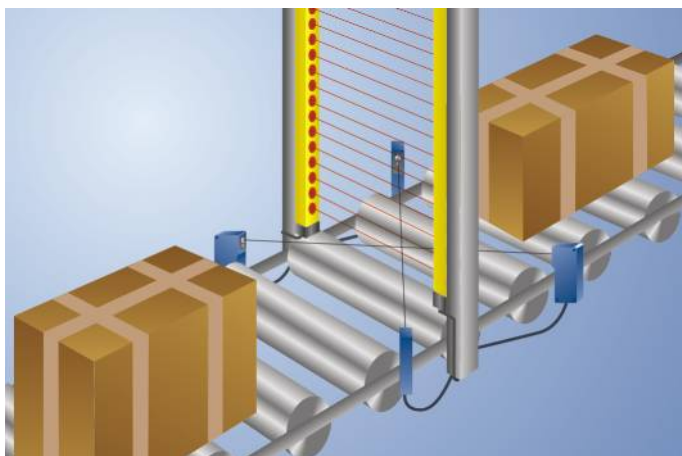
Technical Data

Optical Data	
Range	0,25...7 m
Safety Field Height (SFH)	1064 mm
Resolution	14 mm
Light Source	Red Light
Opening Angle	± 2,5 °
Electrical Data	
Sensor Type	Receiver
Supply Voltage	24 V DC
Current Consumption (Ub = 24 V)	300 mA
Response Time	36 ms
Temperature Range	-20...50 °C
Storage temperature	-25...70 °C
No. Safety Outputs (OSSDs)	2
Safety Output Voltage Drop	< 2,5 V
PNP Safety Output/Switching Current	300 mA
Signal Outputs	1
Signal Output Voltage Drop	< 2,5 V
Signal Output/Switching Current	200 mA
Short Circuit and Overload Protection	yes
Reverse Polarity Protection	yes
Interface	RS-485
Protection Class	III
Mechanical Data	
Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP67
Connection	M12 × 1; 8-pin
Safety-relevant Data	
ESPE Type (EN 61496)	4
Safety Category (EN ISO 13849-1)	4
Performance Level (EN ISO 13849-1)	PL e
PFHD	4,22 × E-8 1/h
Service Life TM (EN ISO 13849-1)	20 a
Function	
Finger Protection	yes
Restart Inhibit	yes
Contactor Monitoring	yes
Cascading	yes
Fix Blanking	yes
Floating Blanking	yes
Reduced Resolution	yes
Serial Communication	yes
Connection Table No.	**28**
Control Panel No.	**S4**
Suitable Connection Technology No.	**88** **88s**
Suitable Mounting Technology No.	**700**
Suitable Serial Interface Plug No.	**11**

Suitable Emitter

SG4-14IS105C1

Complementary Products

Laser Alignment Tool SZ0-LAH1
Muting Indicator SM0-00CA000C1
Path-Folding Mirror Z2UG003
Protection Column with Path-Folding Mirror SZ000EU170NN01
Protection Column with Protective Screen SZ000EG170NN01
Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S
Software
Software wsafe
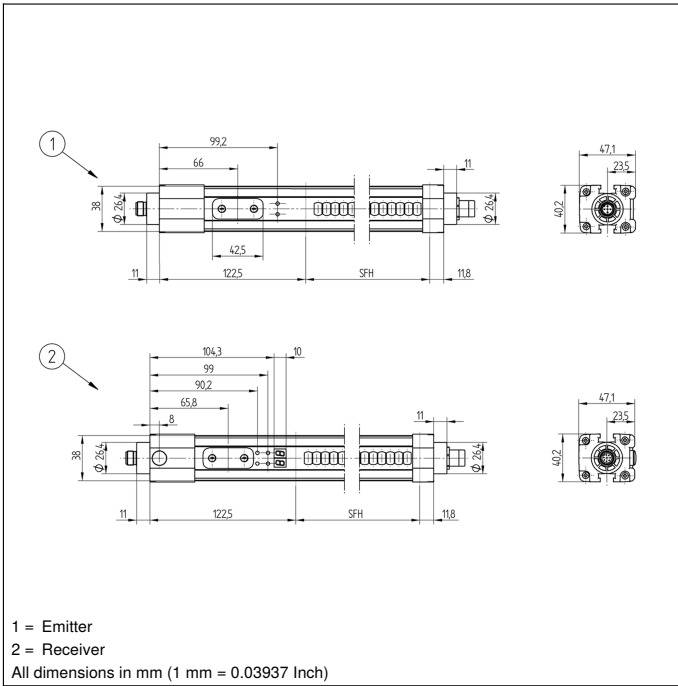
Ctrl. Panel
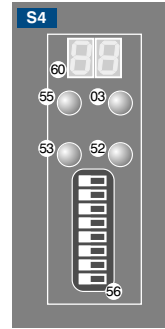
03 = Error Indicator
20 = Enter Button
52 = OSSD ON
53 = OSSD OFF
55 = Blanking
56 = Dip-Switch
60 = Display

1 = Emitter
2 = Receiver
All dimensions in mm (1 mm = 0.03937 Inch)