

Safety Light Curtain

Finger Protection

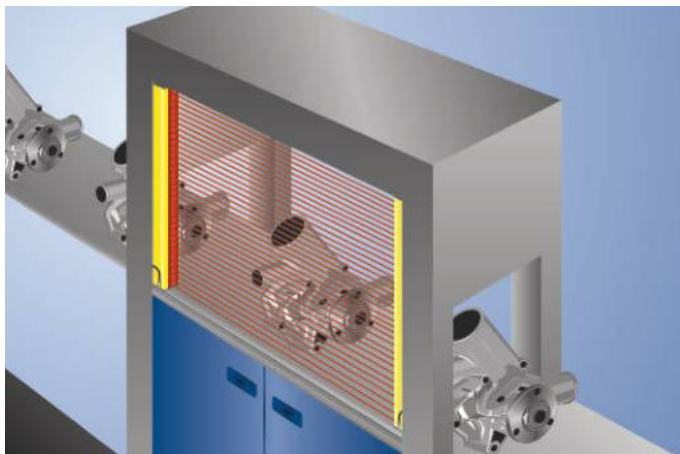
SEMG542

Part Number



- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data

Range	0,25...6 m
Housing Length (L)	1810 mm
Safety Field Height (SFH)	1811 mm
Resolution	14 mm
Light Source	Red Light
Wavelength	630 nm
Opening Angle	± 2,5 °

Electrical Data

Sensor Type	Emitter
Supply Voltage	19,2...28,8 V DC
Current Consumption (U _b = 24 V)	100 mA
Temperature Range	-5...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Housing Material	Aluminum
Disc Material	Polycarbonate
Degree of Protection	IP65/IP67
Connection	M12 × 1; 4/5-pin
Cable Length	300 mm

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Mission Time TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3

Function

Finger Protection	yes
Scope of functions	Basic function
Scope of delivery	Mounting ZEMX001

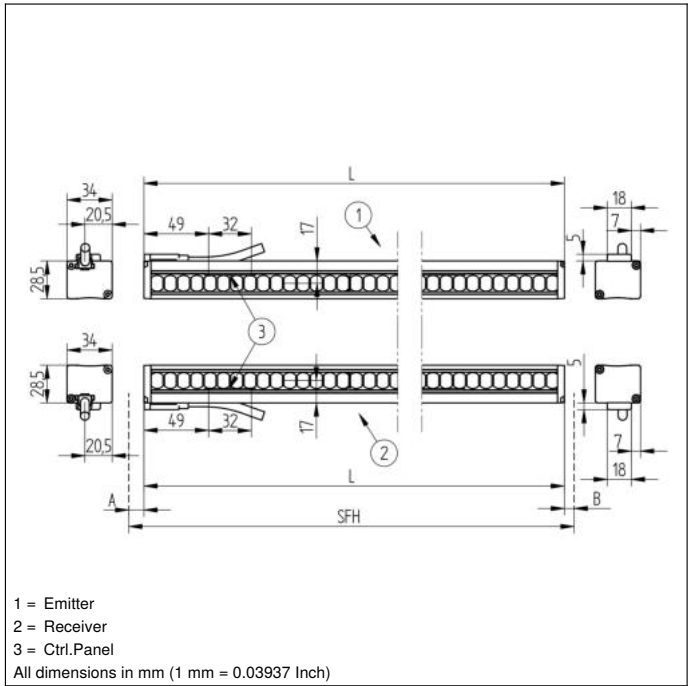
Connection Diagram No.	362
Control Panel No.	SR4
Suitable Connection Equipment No.	2 35
Suitable Mounting Technology No.	790 810 820

Suitable Receiver

SEMG642

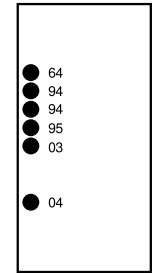
Complementary Products

Path-Folding Mirror Z2UG004
Protection column with deflection mirror Z2SU003
Protection Column with Path-Folding Mirror SZ000EU215NN01
Protection Column with Protective Screen SZ000EG215NN01
Protection column with protective screen Z2SS003
Software

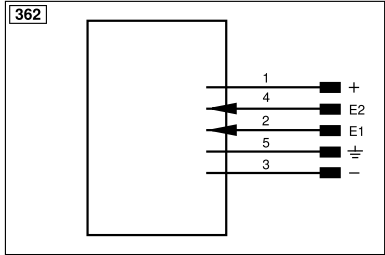


Ctrl. Panel

SR4



- 03 = Error Indicator
- 04 = Function Indicator
- 64 = Diagnosis/Test
- 94 = Diagnosis
- 95 = Diagnosis/Large Detection Range



Legend							
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)		
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A		
~	Supply Voltage (AC Voltage)	Ü	Test Input inverted	ENb	Encoder B		
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN		
Ä	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX		
V	Contamination/Error Output (NO)	O	Analog Output	AOK	Digital output OK		
Ȳ	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In		
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT		
T	Teach Input	Amv	Valve Output	OLT	Brightness output		
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance		
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved		
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757			
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black		
RDY	Ready	E+	Receiver-Line	BN	Brown		
GND	Ground	S+	Emitter-Line	RD	Red		
CL	Clock	±	Grounding	OG	Orange		
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow		
IO-Link		Rx+/-	Ethernet Receive Path	GN	Green		
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue		
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet		
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey		
Signal	Signal Output	Mag	Magnet activation	WH	White		
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink		
ENo RS422	Encoder 0-pulse 0/Ü (TTL)	EDM	Contact Monitoring	GNYE	Green/Yellow		
PT	Platinum measuring resistor	ENARIS422	Encoder A/A (TTL)				