

# Safety Light Curtain

## Hand Protection

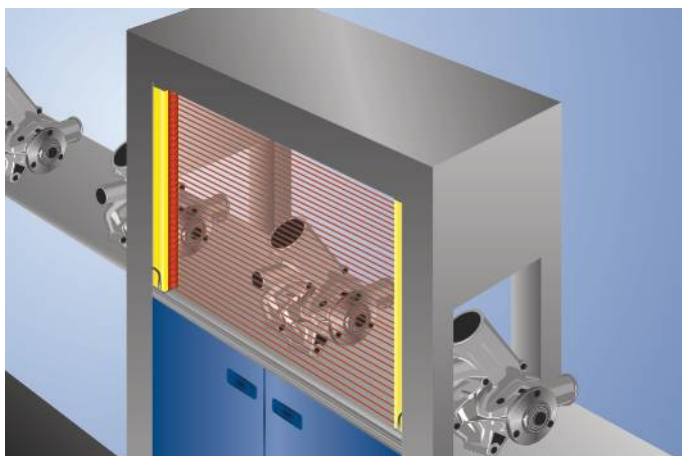
# SEMG512

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...14 m
Housing Length (L)	311 mm
Safety Field Height (SFH)	326 mm
Resolution	30 mm
Light Source	Red Light
Wave Length	630 nm
Opening Angle	± 2,5 °
Electrical Data	
Sensor Type	Emitter
Supply Voltage	19,2...28,8 V DC
Current Consumption (U <sub>b</sub> = 24 V)	100 mA
Temperature Range	-25...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III
Mechanical Data	
Housing Material	Aluminum
Disk 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
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3
Function	
Hand Protection	yes
Scope of delivery	Mounting ZEMX001
Connection Diagram No.	<b>362</b>
Control Panel No.	<b>SR4</b>
Suitable Connection Technology No.	<b>2</b>   <b>35</b>
Suitable Mounting Technology No.	<b>790</b>   <b>810</b>   <b>820</b>

## Suitable Receiver

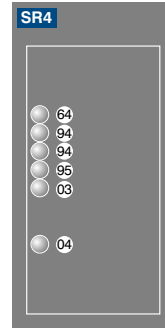
SEMG612
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## Complementary Products

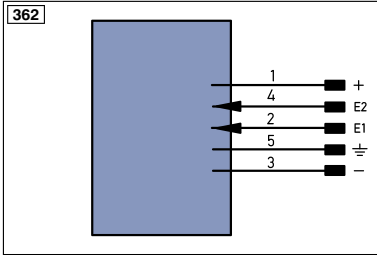
Path-Folding Mirror Z2UG002
Protection Column with Path-Folding Mirror SZ000EU125NN01
Protection Column with Protective Screen SZ000EG125NN01
Software




### Ctrl. Panel



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



### Legend

<b>+</b> Supply Voltage +	<b>PT</b> Platinum measuring resistor	<b>ENa</b> Encoder A
<b>-</b> Supply Voltage 0 V	<b>nc</b> not connected	<b>ENb</b> Encoder B
<b>~</b> Supply Voltage (AC Voltage)	<b>U</b> Test Input	<b>AMIN</b> Digital output MIN
<b>A</b> Switching Output (NO)	<b>U</b> Test Input inverted	<b>AMAX</b> Digital output MAX
<b>Ā</b> Switching Output (NC)	<b>W</b> Trigger Input	<b>AOK</b> Digital output OK
<b>V</b> Contamination/Error Output (NO)	<b>O</b> Analog Output	<b>SY In</b> Synchronization In
<b>V̄</b> Contamination/Error Output (NC)	<b>O-</b> Ground for the Analog Output	<b>SY OUT</b> Synchronization OUT
<b>E</b> Input (analog or digital)	<b>BZ</b> Block Discharge	<b>Out</b> Brightness output
<b>T</b> Teach Input	<b>AWV</b> Valve Output	<b>M</b> Maintenance
<b>Z</b> Time Delay (activation)	<b>a</b> Valve Control Output +	
<b>S</b> Shielding	<b>b</b> Valve Control Output 0 V	
<b>RxD</b> Interface Receive Path	<b>SY</b> Synchronization	
<b>TxD</b> Interface Send Path	<b>E+</b> Receiver-Line	
<b>RDY</b> Ready	<b>S+</b> Emitter-Line	
<b>GND</b> Ground	<b>≡</b> Grounding	
<b>CL</b> Clock	<b>SnR</b> Switching Distance Reduction	
<b>E/A</b> Output/Input programmable	<b>Rx +/-</b> Ethernet Receive Path	
 <b>IO-Link</b>	<b>Tx +/-</b> Ethernet Send Path	
<b>PoE</b> Power over Ethernet	<b>Bus</b> Interfaces-Bus A(+)/B(-)	
<b>IN</b> Safety Input	<b>La</b> Emitted Light disengageable	
<b>OSSD</b> Safety Output	<b>Mag</b> Magnet activation	
<b>Signal</b> Signal Output	<b>RES</b> Input confirmation	
<b>Bl..D +/-</b> Ethernet Gigabit bidirect. data line (A-D)	<b>EDM</b> Contactor Monitoring	
<b>EN0r5422</b> Encoder 0-pulse 0-0 (TTL)	<b>ENAr5422</b> Encoder A/Ā (TTL)	
	<b>ENBr5422</b> Encoder B/B̄ (TTL)	

### Wire Colors according to DIN IEC 757

<b>BK</b> Black
<b>BN</b> Brown
<b>RD</b> Red
<b>OG</b> Orange
<b>YE</b> Yellow
<b>GN</b> Green
<b>BU</b> Blue
<b>VT</b> Violet
<b>GY</b> Grey
<b>WH</b> White
<b>PK</b> Pink
<b>GNYE</b> Green/Yellow

