

# Safety Light Curtain

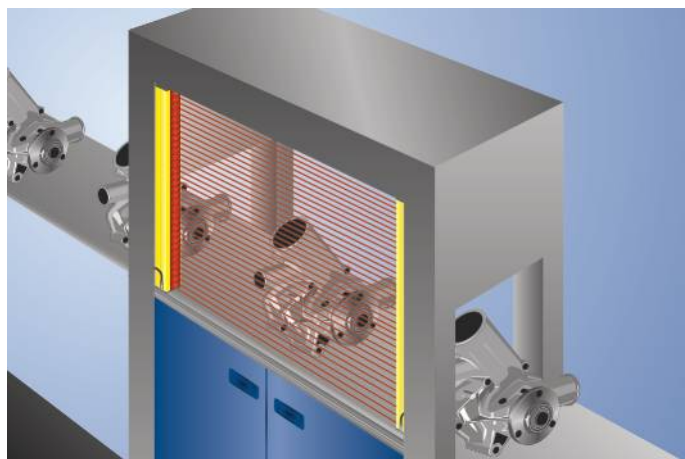
## Finger Protection

# SEMG674



- 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 complete all basic tasks with ease. The basic functions of safety operating mode, restart inhibit and contactor monitoring are integrated as standard and can be easily configured. Without protrusion, the safety field always extends to the end of the housing. This makes it easy to secure even in confined installation conditions.



### Optical Data

|                           |            |
|---------------------------|------------|
| Range                     | 0,25...6 m |
| Housing Length (L)        | 610 mm     |
| Safety Field Height (SFH) | 610 mm     |
| Resolution                | 14 mm      |
| Light Source              | Red Light  |
| Max. Ambient Light        | 10000 Lux  |
| Opening Angle             | ± 2,5 °    |

### Electrical Data

|                                             |                  |
|---------------------------------------------|------------------|
| Sensor Type                                 | Receiver         |
| Supply Voltage                              | 19,2...28,8 V DC |
| Current Consumption (U <sub>b</sub> = 24 V) | 120 mA           |
| Response Time                               | 11,6 ms          |
| Temperature Range                           | -25...55 °C      |
| Storage temperature                         | -25...60 °C      |
| Number of safety outputs (OSSDs)            | 2                |
| Safety Output Voltage Drop                  | < 2,3 V          |
| PNP Safety Output/Switching Current         | 300 mA           |
| Number of Signal Outputs                    | 1                |
| Signal Output Voltage Drop                  | < 2,5 V          |
| Signal Output/Switching Current             | 100 mA           |
| Short Circuit and Overload Protection       | yes              |
| Reverse Polarity Protection                 | yes              |
| Protection Class                            | III              |

### Mechanical Data

|                      |                |
|----------------------|----------------|
| Housing Material     | Aluminum       |
| Disc Material        | Polycarbonate  |
| Degree of Protection | IP65/IP67      |
| Connection           | M12 × 1; 8-pin |

### Safety-relevant Data

|                                    |                |
|------------------------------------|----------------|
| ESPE Type (EN 61496)               | 4              |
| Performance Level (EN ISO 13849-1) | Cat. 4 PL e    |
| PFHD                               | 1,60 × E-8 1/h |
| 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 |

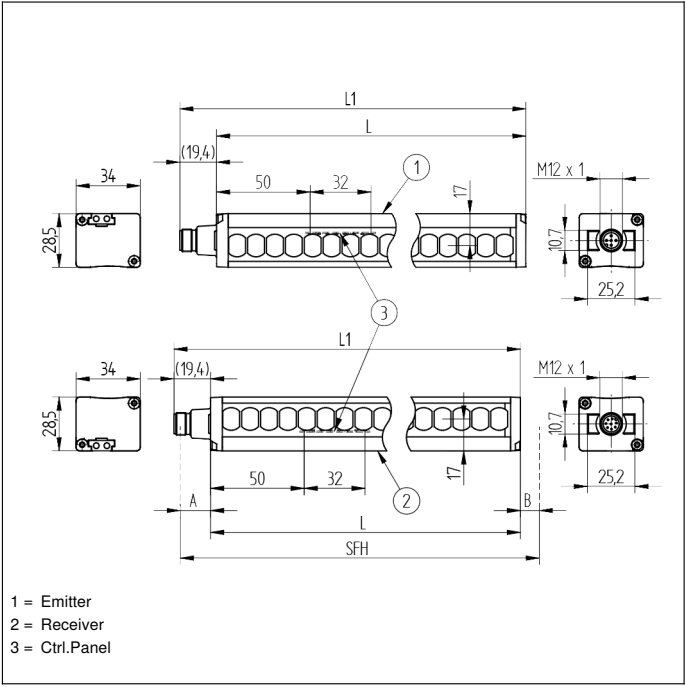
|                                   |                       |
|-----------------------------------|-----------------------|
| Connection Diagram No.            | 361                   |
| Control Panel No.                 | SR5                   |
| Suitable Connection Equipment No. | 89                    |
| Suitable Mounting Technology No.  | 701   790   810   820 |

### Suitable Emitter

SEMG574

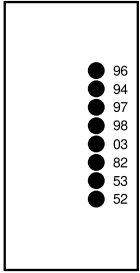
### Complementary Products

|                                                           |
|-----------------------------------------------------------|
| Path-Folding Mirror Z2UG002                               |
| Protection Column with Path-Folding Mirror SZ000EU125NN01 |
| Protection Column with Protective Screen SZ000EG125NN01   |
| Protection column with protective screen Z2SS001          |
| Protection column with Z2SU001 deflection mirror          |
| Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S          |
| Software                                                  |



### Ctrl. Panel

SR5



- 03 = Error Indicator
- 52 = OSSD ON
- 53 = OSSD OFF
- 82 = Acknowledgement Request
- 94 = Diagnosis
- 96 = Diagnosis/Signal weak
- 97 = Diagnosis/Contactor Monitoring
- 98 = Diagnosis/Synchronization

