



## Safety light curtains M4000 Advanced Curtain

M40E-67A323RB0, M40S-67A303AA0



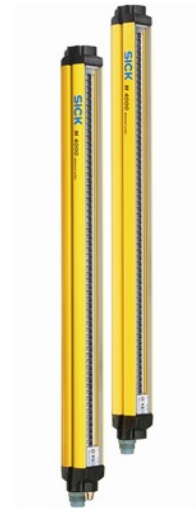
#### Receiver

Model Name [> M40E-67A323RB0](#)  
Part No. [> 1205633](#)



#### Sender

Model Name [> M40S-67A303AA0](#)  
Part No. [> 1203236](#)



#### At a glance

- Type 4 (IEC 61496), PL e (EN ISO 13849)
- Robust housing with three mounting grooves
- 7-segment display
- Resolution 14/30 mm, scanning range up to 19 m
- External device monitoring (EDM), restart interlock (RES), application diagnostic output (ADO), and SDL interface
- Beam coding for correct system allocation
- Muting: on-site connection and processing in combination with the IP 65-rated UE403 switching amplifier
- Configuration and diagnostics via PC

#### Your benefits

- High resolution (14/30 mm) reduces the safety distances for access protection - both with and without muting
- The robust housing and high power reserve enable reliable use, even in harsh ambient conditions
- Mounting grooves on three housing sides ensure more flexibility in the installation and simplify machine integration
- User-friendly interfaces and status indicators facilitate commissioning and maintenance
- On-site connection of the muting signals on the UE403 switching amplifier minimizes the time spent laying cables and facilitates commissioning procedures and maintenance
- Reduced downtimes through all-around-visible LED and diagnostics displays as well as configuration memory in the UE403 switching amplifier



#### Applications

|                                         |   |
|-----------------------------------------|---|
| Hazardous area protection (horizontal): | ✓ |
| Access protection (vertical):           | ✓ |
| Access protection with muting:          | ✓ |

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**Functions-Sender**

|                                        |                                                     |
|----------------------------------------|-----------------------------------------------------|
| System construction:                   | Sender/receiver system                              |
| Beam coding:                           | ✓                                                   |
| Beam coding (delivery status):         | Non-coded                                           |
| Sender test:                           | ✓                                                   |
| Sender test (delivery status):         | deactivated                                         |
| Integrated laser alignment aid:        | -                                                   |
| SDL interface:                         | ✓                                                   |
| Configuration method:                  | PC with CDS (Configuration and Diagnostic Software) |
| Safe device communication via EFI/SDL: | ✓                                                   |

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**Functions-Receiver**

|                                                  |                                                     |
|--------------------------------------------------|-----------------------------------------------------|
| System construction:                             | Sender/receiver system                              |
| Restart interlock:                               | ✓                                                   |
| Restart interlock (delivery status):             | Activated                                           |
| External device monitoring (EDM):                | ✓                                                   |
| External device monitoring (delivery status):    | Activated                                           |
| Beam coding:                                     | ✓                                                   |
| Beam coding (delivery status):                   | Non-coded                                           |
| Muting with:                                     | UE403                                               |
| Belt stop (with UE403):                          | ✓                                                   |
| Concurrence monitoring (with UE403):             | ✓                                                   |
| Monitoring total muting time (with UE403):       | ✓                                                   |
| End of muting by ESPE (with UE403):              | ✓                                                   |
| Sensor gap monitoring (with UE403):              | ✓                                                   |
| Sensor test (with UE403):                        | ✓                                                   |
| Partial blanking (with UE403):                   | ✓                                                   |
| Exit monitoring (with UE403):                    | ✓                                                   |
| Configurable application diagnostic output:      | ✓                                                   |
| Application diagnostic output (delivery status): | Contamination (OWS)                                 |
| Configurable scanning range:                     | ✓                                                   |
| Integrated laser alignment aid:                  | -                                                   |
| End cap with integrated LED:                     | ✓                                                   |
| Additional reset connection:                     | -                                                   |
| SDL interface:                                   | ✓                                                   |
| Configuration method:                            | PC with CDS (Configuration and Diagnostic Software) |
| Scanning range (delivery status):                | 6 m                                                 |
| Extension connection:                            | ✓                                                   |
| Safe device communication via EFI/SDL:           | ✓                                                   |
| Reading mode:                                    | ✓                                                   |
| CDS data recorder:                               | ✓                                                   |
| Event history:                                   | ✓                                                   |

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**Technical Data-Sender**

|                          |                                      |
|--------------------------|--------------------------------------|
| Protective field height: | 1,350 mm                             |
| Resolution:              | 30 mm                                |
| Housing cross-section:   | 52 mm x 55.5 mm                      |
| Type:                    | Type 4 (IEC 61496)                   |
| Safety integrity level:  | SIL3 (IEC 61508), SILCL3 (IEC 62061) |
| Category:                | category 4 (EN ISO 13849)            |

|                                            |                                                               |
|--------------------------------------------|---------------------------------------------------------------|
| Performance level:                         | PL e (EN ISO 13849)                                           |
| TM (mission time):                         | 20 a                                                          |
| Supply voltage typical, from, to:          | 24 V, 19.2 V, 28.8 V                                          |
| Power consumption:                         | ≤ 0.2 A                                                       |
| System connection:                         | Hirschmann plug M26 x 11 + FE, straight (sender and receiver) |
| Display elements:                          | LED/7-segment                                                 |
| Protection class:                          | III (EN 50178:1998)                                           |
| Enclosure rating:                          | IP 65 (EN 60529)                                              |
| Ambient operating temperature from ... to: | -30 °C ... 55 °C                                              |
| Vibration resistance (checked to):         | 5 g (IEC 60068-2-6)                                           |
| Oscillation frequency from ... to:         | 10 Hz ... 55 Hz                                               |
| Shock resistance:                          | 10 g, 16 ms (IEC 60068-2-29)                                  |

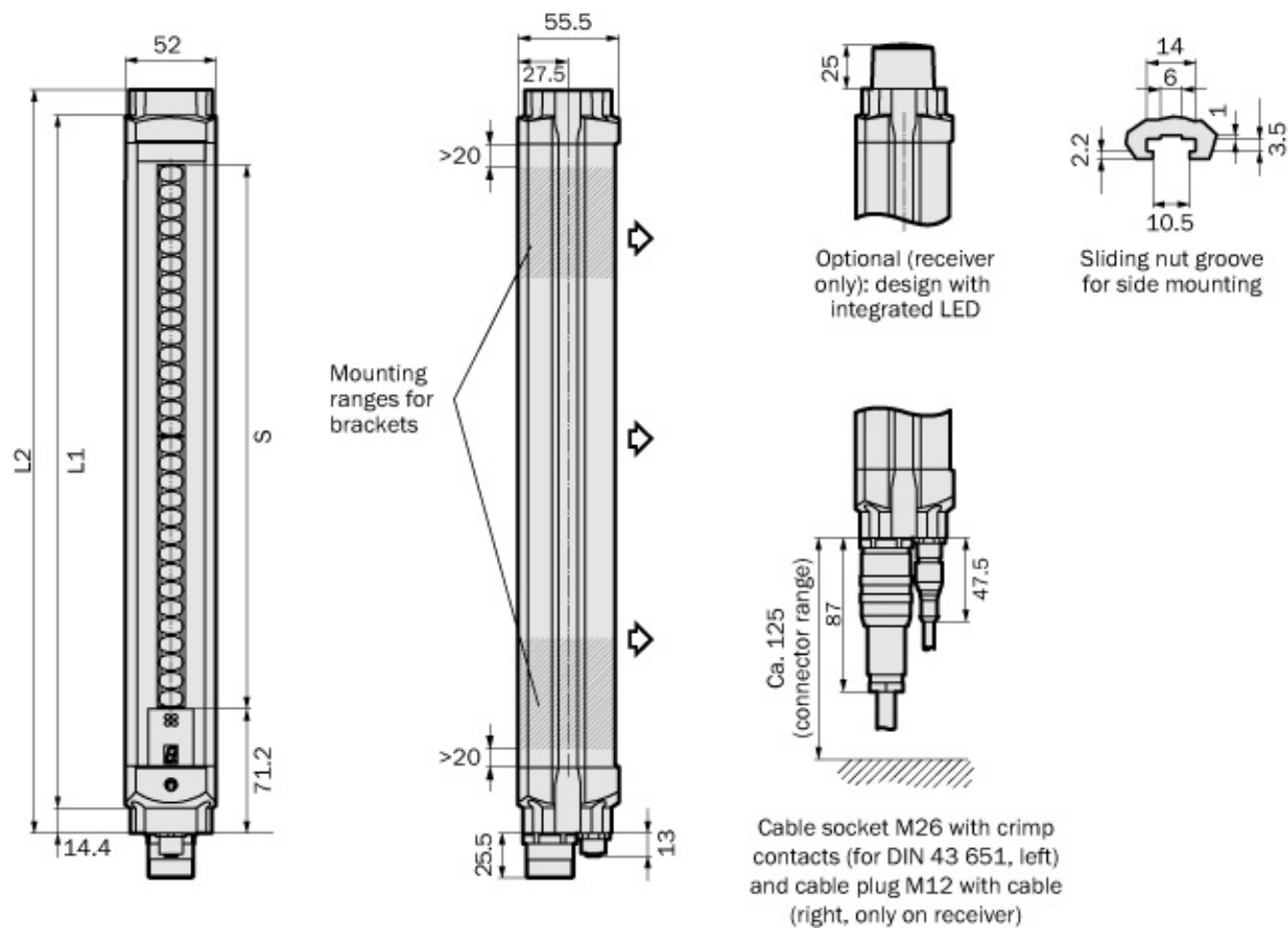
#### Technical Data-Receiver

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|                                               |                                                               |
|-----------------------------------------------|---------------------------------------------------------------|
| Protective field height:                      | 1,350 mm                                                      |
| Resolution:                                   | 30 mm                                                         |
| Scanning range from ... to:                   | 0 m ... 19 m                                                  |
| Scanning range from ... to (delivery status): | 0 m ... 6 m                                                   |
| Housing cross-section:                        | 52 mm x 55.5 mm                                               |
| Type:                                         | Type 4 (IEC 61496)                                            |
| Safety integrity level:                       | SIL3 (IEC 61508), SILCL3 (IEC 62061)                          |
| Category:                                     | category 4 (EN ISO 13849)                                     |
| Performance level:                            | PL e (EN ISO 13849)                                           |
| TM (mission time):                            | 20 a                                                          |
| Supply voltage typical, from, to:             | 24 V, 19.2 V, 28.8 V                                          |
| Type of output:                               | Safety outputs (OSSD)                                         |
| Power consumption:                            | ≤ 0.6 A <sup>1)</sup>                                         |
| Switching voltage typ, from, to:              | UV - 2,25 V, 24 V DC, UV                                      |
| Maximum switching current:                    | 500 mA                                                        |
| Display elements:                             | LED/7-segment                                                 |
| System connection:                            | Hirschmann plug M26 x 11 + FE, straight (sender and receiver) |
| Connection type configuration connection:     | M8 x 4                                                        |
| Protection class:                             | III (EN 50178:1998)                                           |
| Enclosure rating:                             | IP 65 (EN 60529)                                              |
| Ambient operating temperature from ... to:    | -30 °C ... 55 °C                                              |
| Vibration resistance (checked to):            | 5 g (IEC 60068-2-6)                                           |
| Oscillation frequency from ... to:            | 10 Hz ... 55 Hz                                               |
| Shock resistance:                             | 10 g, 16 ms (IEC 60068-2-29)                                  |

<sup>1)</sup> Without load

## Dimensional drawing



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