Safety light curtains
M4000 Advanced Curtain

M40E-64A323RB0, M40S-64A303AA0
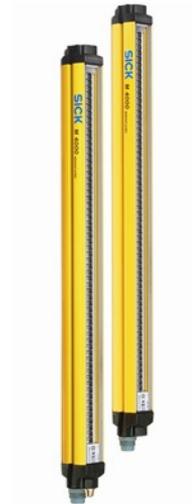
SICK
Sensor Intelligence.
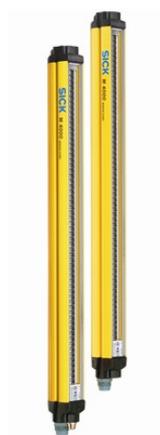
Receiver

Model Name	> M40E-64A323RB0
Part No.	> 1204680

Sender

Model Name	> M40S-64A303AA0
Part No.	> 1201441

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:	✓

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:	✓

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:	✓

Technical Data-Sender

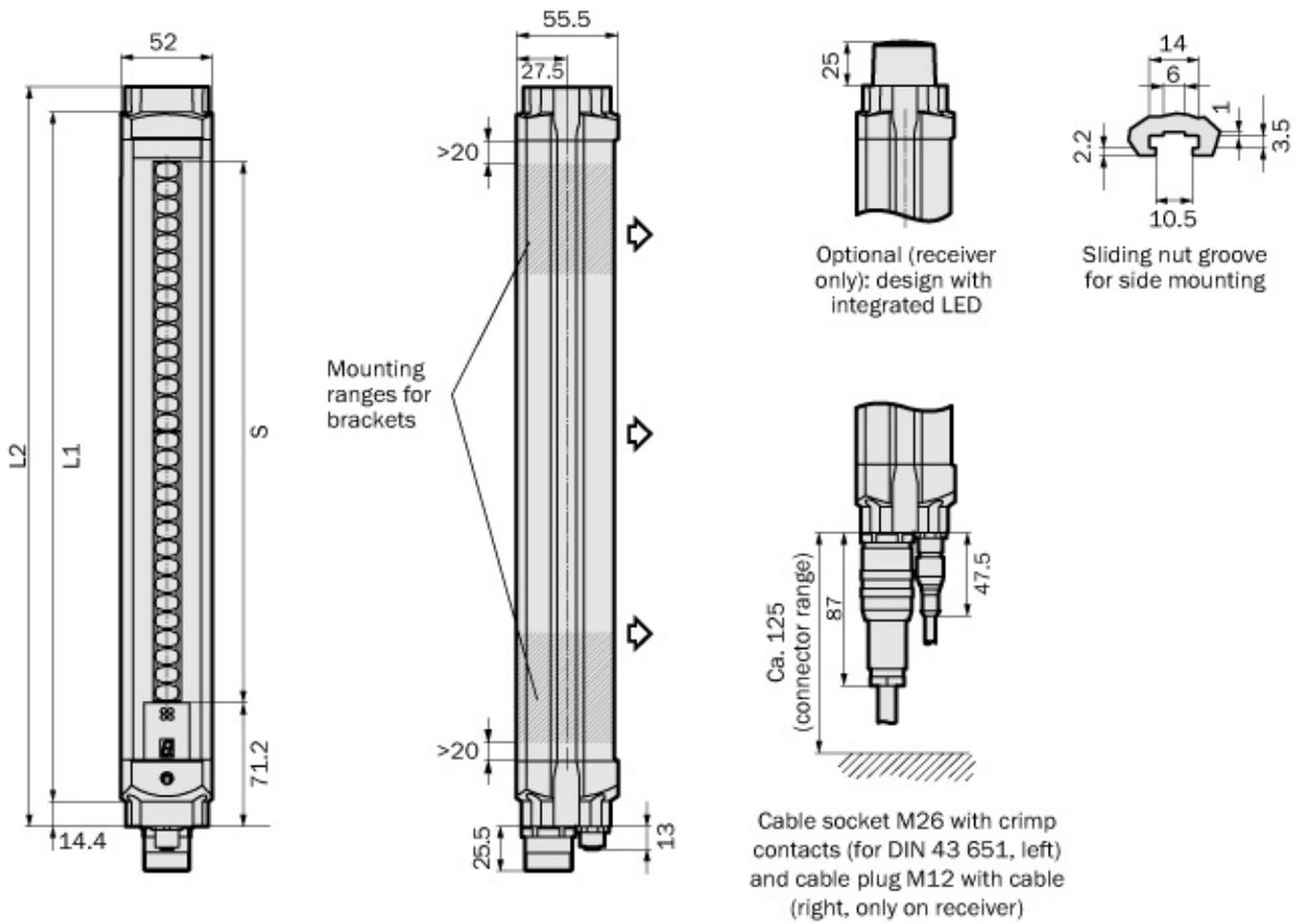|	
Protective field height:	900 mm
Resolution:	30 mm
Housing cross-section:	52 mm x 55.5 mm
Type:	Type 4 (IEC 61496)
Safety integrity level:	SIL3 (IEC 61508), SILCL3 (IEC 62061)
Category:	category 4 (EN ISO 13849)

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

Protective field height:	900 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)
Response time without beam coding:	≤ 12 ms
Response time with beam coding:	≤ 18 ms
Power consumption:	≤ 0.6 A [1]
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)

[1] Without load

Dimensional drawing

52

55.5

27.5

>20

L2

L1

S

Mounting
ranges for
brackets

71.2

14.4

>20

25.5

13

25

Optional (receiver
only): design with
integrated LED

14
6
1
3.5
2.2
10.5

Sliding nut groove
for side mounting

Ca. 125
(connector range)

87

47.5

Cable socket M26 with crimp
contacts (for DIN 43 651, left)
and cable plug M12 with cable
(right, only on receiver)

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