



Safety light curtains M4000 Advanced Curtain

M40E-70A503RB0, M40S-70A503AA0



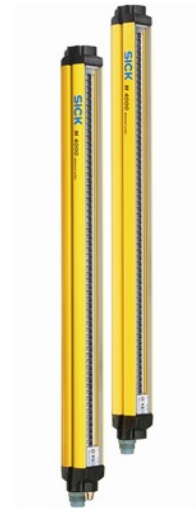
Receiver

Model Name [> M40E-70A503RB0](#)
Part No. [> 1203280](#)



Sender

Model Name [> M40S-70A503AA0](#)
Part No. [> 1203250](#)

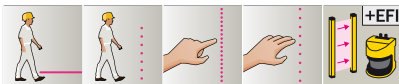


At a glance

- 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):	2.5 m
Extension connection:	✓
Safe device communication via EFI/SDL:	✓
Reading mode:	✓
CDS data recorder:	✓
Event history:	✓

Technical Data-Sender

Protective field height:	1,800 mm
Resolution:	14 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)

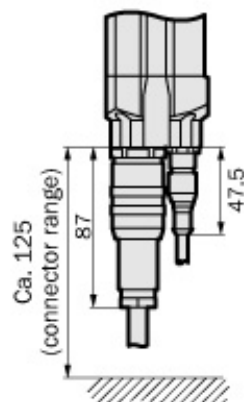
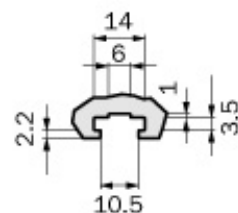
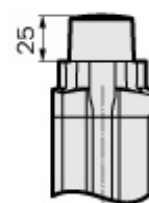
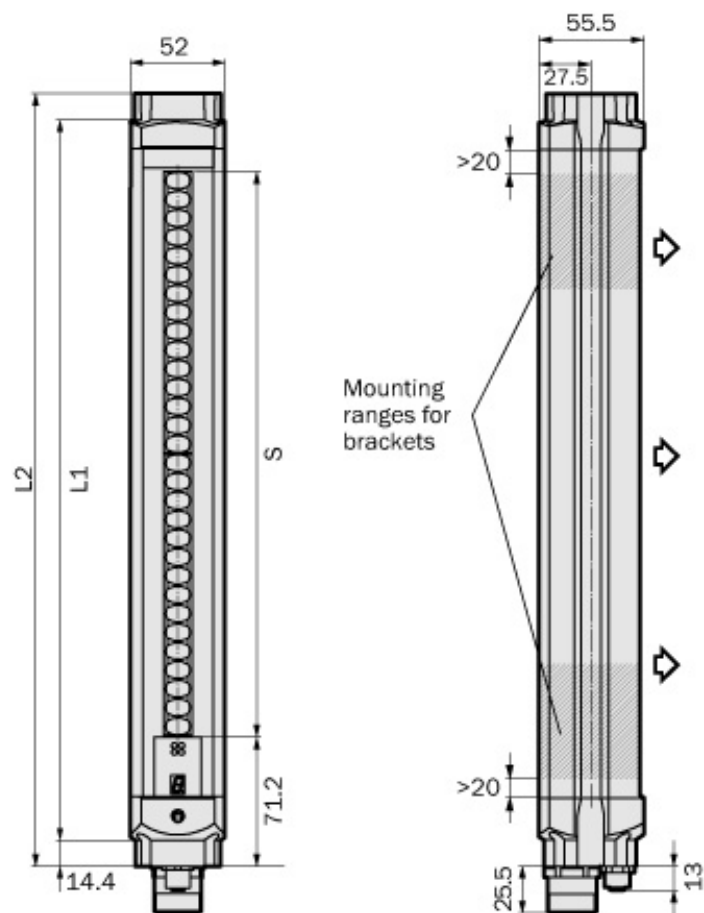
Performance level:	PL e (EN ISO 13849)
TM (mission time):	20 a
Supply voltage typical, from, to:	24 V, 19.2 V, 28.8 V
Power consumption:	≤ 0.2 A
System connection:	Hirschmann plug M26 x 11 + FE, straight (sender and receiver)
Display elements:	LED/7-segment
Protection class:	III (EN 50178:1998)
Enclosure 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:	1,800 mm
Resolution:	14 mm
Scanning range from ... to:	0 m ... 8 m
Scanning range from ... to (delivery status):	0 m ... 2.5 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 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



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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