



## M4000 Advanced Curtain

On-site connection of the muting signals and high resolution

**SICK**  
Sensor Intelligence.



## Technical data overview

<b>Safety level</b>	PL e, SIL 3, Type 4
<b>Resolution</b>	14 mm / 30 mm (depending on type)
<b>Scanning range</b>	10 m / 21 m (depending on type)
<b>Protective field height</b>	300 mm ... 1,800 mm (depending on type)
<b>Enclosure rating</b>	IP65
<b>Ambient operating temperature</b>	-30 °C ... +55 °C



## Product description

Together with the UE403 muting switching amplifier, the M4000 Advanced Curtain safety light curtain forms an efficient solution for conventional muting applications with automated material transport. It is particularly well suited when high resolutions are required due to short safety distances. Simple configuration via PC and the on-site connection of the muting signals ensure maximum availability. Various mounting adapters and innovative accessories enable flexible installation of the device and muting sensors. Integrated functions as well as status and diagnostic information enable quick commissioning and minimize unnecessary machine downtime. The modular design allows the specific coordination of device features to requirements and provides an economical solution for high machine safety. In addition, sens:Control devices, accessories, and services complete the product offering and form packaged solutions designed specifically for industrial environments.

## At a glance

- Type 4 (IEC 61496), SIL3 (IEC 61508), PL e (EN ISO 13849)
- Rugged housing with three mounting grooves
- 7-segment display
- Resolution 14 mm or 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 UE403 muting switching amplifier
- Configuration and diagnostics via PC

## Your benefits

- The high resolution (14 mm / 30 mm) reduces the safety distances for access protection, with and without muting
- The rugged housing and high power reserve enable reliable use, even in harsh ambient conditions
- Mounting grooves on three sides ensure greater mounting flexibility and facilitate integration with the machine
- Customer-friendly interfaces and status indicators facilitate commissioning and maintenance
- On-site connection of the muting signals to the UE403 muting switching amplifier minimizes cabling work and simplifies commissioning and maintenance
- Reduced downtime due to all-around-visible LED and diagnostics displays as well as the configuration memory in the UE403 muting switching amplifier

## Fields of application

- Use as access protection with short safety distances with and without muting
- Robots and automatic machining centers
- Machine tools and assembly lines
- Punching machines and water jet cutting/laser cutting machines
- Storage and conveyor
- Packaging machinery and palletizer systems
- Stone setting machines and stackers
- Wood machining and large weaving machines

## Ordering information

Other models and accessories → [www.sick.com/M4000\\_Advanced\\_Curtain](http://www.sick.com/M4000_Advanced_Curtain)

- **System connection:** Hirschmann male connector M26, 12-pin
- **Extension connection on the receiver:** female connector M12, 5-pin

Resolution	Scanning range	Protective field height	Sender		Receiver	
			Type	Part no.	Type	Part no.
14 mm	10 m	300 mm	M40S-60A503AA0	1203262	M40E-60A503RB0	1203263
		450 mm	M40S-61A503AA0	1203264	M40E-61A503RB0	1203265
		600 mm	M40S-62A503AA0	1203266	M40E-62A503RB0	1203267
		750 mm	M40S-63A503AA0	1203240	M40E-63A503RB0	1203241
		900 mm	M40S-64A503AA0	1203268	M40E-64A503RB0	1203269
		1,050 mm	M40S-65A503AA0	1203270	M40E-65A503RB0	1203271
		1,200 mm	M40S-66A503AA0	1203272	M40E-66A503RB0	1203273
		1,350 mm	M40S-67A503AA0	1203274	M40E-67A503RB0	1203275
		1,500 mm	M40S-68A503AA0	1203276	M40E-68A503RB0	1203277
		1,650 mm	M40S-69A503AA0	1203278	M40E-69A503RB0	1203279
		1,800 mm	M40S-70A503AA0	1203250	M40E-70A503RB0	1203280
30 mm	21 m	300 mm	M40S-60A303AA0	1201570	M40E-60A303RB0	1201572
		450 mm	M40S-61A303AA0	1201127	M40E-61A303RB0	1201214
		600 mm	M40S-62A303AA0	1201463	M40E-62A303RB0	1201464
		750 mm	M40S-63A303AA0	1201571	M40E-63A303RB0	1201573
		900 mm	M40S-64A303AA0	1201441	M40E-64A303RB0	1201442
		1,050 mm	M40S-65A303AA0	1201482	M40E-65A303RB0	1201483
		1,200 mm	M40S-66A303AA0	1201036	M40E-66A303RB0	1201035
		1,350 mm	M40S-67A303AA0	1203236	M40E-67A303RB0	1203242
		1,500 mm	M40S-68A303AA0	1203237	M40E-68A303RB0	1203243
		1,650 mm	M40S-69A303AA0	1203238	M40E-69A303RB0	1203244
		1,800 mm	M40S-70A303AA0	1203239	M40E-70A303RB0	1203245

- **System connection:** Hirschmann male connector M26, 12-pin
- **Extension connection on the receiver:** female connector M12, 5-pin
- **End cap with integrated LED on the receiver:** ✓

Resolution	Scanning range	Protective field height	Sender		Receiver	
			Type	Part no.	Type	Part no.
14 mm	10 m	300 mm	M40S-60A503AA0	1203262	M40E-60A523RB0	1205622
		450 mm	M40S-61A503AA0	1203264	M40E-61A523RB0	1205623
		600 mm	M40S-62A503AA0	1203266	M40E-62A523RB0	1205625
		750 mm	M40S-63A503AA0	1203240	M40E-63A523RB0	1205303
		900 mm	M40S-64A503AA0	1203268	M40E-64A523RB0	1205626
		1,050 mm	M40S-65A503AA0	1203270	M40E-65A523RB0	1205627
		1,200 mm	M40S-66A503AA0	1203272	M40E-66A523RB0	1204827
		1,350 mm	M40S-67A503AA0	1203274	M40E-67A523RB0	1205628
		1,500 mm	M40S-68A503AA0	1203276	M40E-68A523RB0	1203511
		1,650 mm	M40S-69A503AA0	1203278	M40E-69A523RB0	1205629
		1,800 mm	M40S-70A503AA0	1203250	M40E-70A523RB0	1204828
30 mm	21 m	300 mm	M40S-60A303AA0	1201570	M40E-60A323RB0	1205630
		450 mm	M40S-61A303AA0	1201127	M40E-61A323RB0	1205631
		600 mm	M40S-62A303AA0	1201463	M40E-62A323RB0	1204362
		750 mm	M40S-63A303AA0	1201571	M40E-63A323RB0	1205392
		900 mm	M40S-64A303AA0	1201441	M40E-64A323RB0	1204680
		1,050 mm	M40S-65A303AA0	1201482	M40E-65A323RB0	1205632
		1,200 mm	M40S-66A303AA0	1201036	M40E-66A323RB0	1204764
		1,350 mm	M40S-67A303AA0	1203236	M40E-67A323RB0	1205633
		1,500 mm	M40S-68A303AA0	1203237	M40E-68A323RB0	1204598
		1,650 mm	M40S-69A303AA0	1203238	M40E-69A323RB0	1205634
		1,800 mm	M40S-70A303AA0	1203239	M40E-70A323RB0	1204829

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

**For us, that is “Sensor Intelligence.”**

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)