M40S-63A300AR0

M4000 Standard Curtain

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.

M40S-63A300AR0 | M4000 Standard Curtain

SAFETY LIGHT CURTAINS

Ordering information

Type	part no.
M40S-63A300AR0	1203029

Other models and accessories ➜ www.sick.com/M4000_Standard_Curtain

Illustration may differ

Detailed technical data

Features

System part	Sender
Resolution	30 mm
Scanning range	21 m
Protective field height	750 mm
Synchronization	Optical synchronization

Safety-related parameters

Type	Type 4 (IEC 61496-1)
Safety integrity level	SIL 3 (IEC 61508)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
PFH$_D$ (mean probability of a dangerous failure per hour)	$28 * 10^{-9}$ (EN ISO 13849)
T$_M$ (mission time)	20 years (EN ISO 13849)
Safe state in the event of a fault	At least one OSSD is in the OFF state.

Functions

	Functions	Delivery status
Restart interlock	✓	Internal
External device monitoring (EDM)	✓	Activated
Beam coding	✓	Uncoded
Configurable status output (ADO)	✓	Contamination (OWS)
Sender test	✓	Deactivated
Configurable scanning range	✓	Low scanning range

Interfaces

System connection	
Connection type	Male connector M12, 8-pin

[1] Depending on load, power supply and wire cross-section. The technical specifications must be observed.

Permitted cable length	≤ 15 m [1]
Permitted cross-section	≥ 0.25 mm²
Configuration method	Configuration buttons
Display elements	7-segment display, LEDs
Status display	LEDs

[1] Depending on load, power supply and wire cross-section. The technical specifications must be observed.

Electronics

Protection class	III (IEC 61140)
Supply voltage V_S	24 V DC (19.2 V … 28.8 V)
Residual ripple	≤ 10 % [1]
Power consumption	≤ 0.3 A

[1] Within the limits of V_S.

Mechanics

Housing cross-section	52 mm x 55.5 mm
Housing material	Aluminum alloy ALMGSI 0.5
Surface treatment	Powder coated
Front screen material	Polycarbonate, scratch-resistant coating

Ambient data

Enclosure rating	IP65 (EN 60529)
Ambient operating temperature	−30 °C … +55 °C
Storage temperature	−30 °C … +70 °C
Air humidity	15 % … 95 %, Non-condensing
Vibration resistance	5 g, 10 Hz … 55 Hz (EN 60068-2-6)
Shock resistance	10 g, 16 ms (EN 60068-2-27)

Other information

Wave length	850 nm

Classifications

ECLASS 5.0	27272704
ECLASS 5.1.4	27272704
ECLASS 6.0	27272704
ECLASS 6.2	27272704
ECLASS 7.0	27272704
ECLASS 8.0	27272704
ECLASS 8.1	27272704
ECLASS 9.0	27272704
ECLASS 10.0	27272704
ECLASS 11.0	27272704
ECLASS 12.0	27272704
ETIM 5.0	EC002549

ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	46171620

Recommended accessories

Other models and accessories ➜ www.sick.com/M4000_Standard_Curtain

	Brief description	Type	part no.
Commissioning aids and test equipment			

	• **Product:** Alignment aids
	• **Dimensions (W x H x L):** 19 mm
	  67.3 mm
	  66.9 mm
	• **Description:** Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam!
		AR60	1015741

	• **Product:** Alignment aids • **Description:** Adapter AR60 for M4000 and M4000 Curtain	AR60 adapter, M4000	4040006
Mounting systems			
	• **Description:** Mounting kit 1, mounting bracket, rigid, L-shaped, including fixing screws and washers • **Packing unit:** 4 pieces • **Suitable for:** All protective field heights	BEF-3WNGBAST4	7021352
	• **Description:** Mounting kit 12, rotatable, swivel mount • **Packing unit:** 4 pieces • **Suitable for:** All protective field heights	BEF-2SMGEAKU4	2030510
	• **Description:** Mounting kit 6, side bracket, rotatable • **Material:** Zinc diecast • **Details:** Zinc diecast • **Packing unit:** 4 pieces • **Suitable for:** All protective field heights	BEF-1SHABAZN4	2019506

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."

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