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DATA SHEET

M40E-026022AU0

M4000 Standard
Safety multibeam sensors

SICK Sensor Intelligence



Illustration may differ

SAFETY MULTIBEAM SENSORS

M40E-026022AU0

ORDERING INFORMATION

Type	part no.
M40E-026022AU0	1206392

Further device versions and accessories at www.sick.com/M4000_Standard

DETAILED TECHNICAL DATA

FEATURES

Specialty	Actuator Sensor Interface replaces the system connection
Functional principle	Sender/receiver
System part	Receiver
Scanning range	0.5 m ... 70 m, configurable
Low scanning range	0.5 m ... 20 m
Great scanning range	9 m ... 70 m
Number of beams	2
Beam separation	600 mm
Response time	10 ms
Synchronization	Optical synchronization
End cap with integrated LED	✓

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)	6.6×10^{-9} (EN ISO 13849)
T_M (mission time)	20 years (EN ISO 13849)

FUNCTIONS

	Functions	Delivery status
Beam coding	✓	Uncoded
Configurable scanning range	✓	0.5 m ... 20 m

INTERFACES

Actuator Sensor Interface	✓
System connection	Male connector M12, 4-pin
Configuration method	Configuration buttons
Display elements	LEDs 7-segment display
End cap with integrated LED	✓

ELECTRONICS

Protection class	III (IEC 61140)
Supply voltage V_S	(26 V DC ... 31.6 V DC)
Power consumption	≤ 0.2 A

MECHANICS

Dimensions	See dimensional drawing
Housing cross-section	52 mm x 55.5 mm
Material	
Housing	Aluminum alloy ALMGSI 0.5, powder coated
Front screen	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)

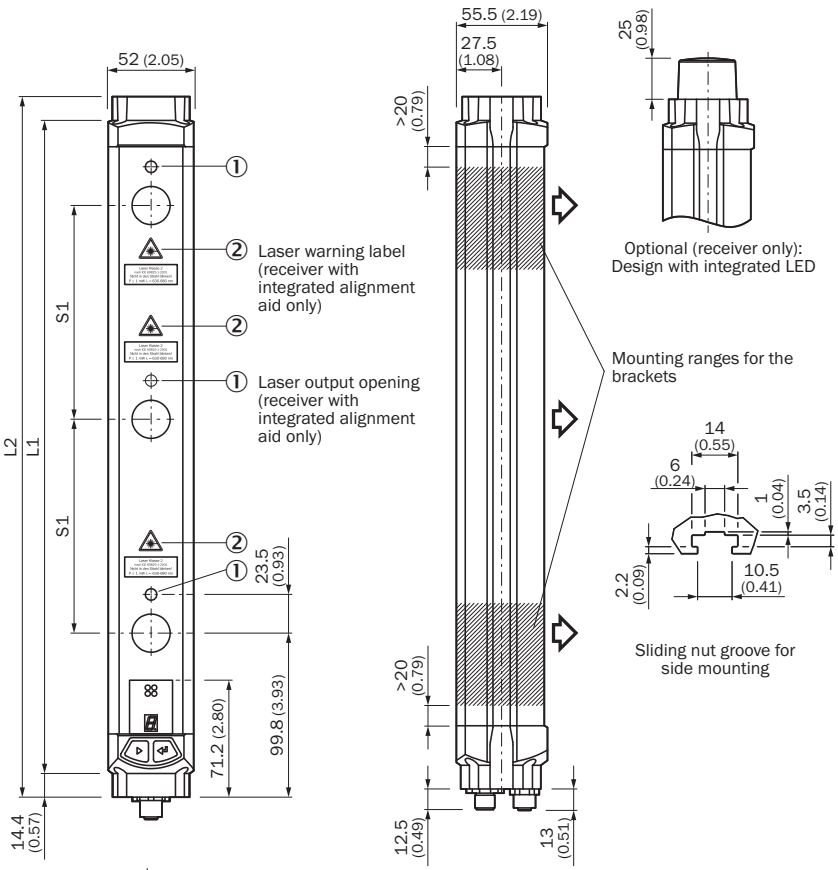
OTHER INFORMATION

Wave length	850 nm

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cTUVus certificate	✓
EC-Type-Examination approval	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

DIMENSIONAL DRAWING



Cable socket M12 angled (only with AS-Interface: aligned)

AS-Interface clip M12 (aligned)

Cable socket M12 with cable (left) and cable plug M12 with cable (right, optional, only on receiver)

Dimensions in mm (inch)
illustration sender (receiver mirror image)

Number of beams	Beam separation S1	L1	L2
2	500 (19.69)	643 (25.31)	672 (26.46)
	600 (23.62)	743 (29.25)	772 (30.39)
3	220 (8.66)	583 (22.95)	612 (24.09)
	400 (15.75)	943 (37.13)	972 (38.27)
	450 (17.72)	1,043 (41.06)	1,072 (42.20)
4	220 (8.66)	803 (31.61)	832 (32.76)
	300 (11.81)	1,043 (41.06)	1,072 (42.20)
5	220 (8.66)	1,023 (40.28)	1,052 (41.42)
6		1,243 (48.94)	1,272 (50.08)

Number of beams	Beam separation S1	L1	L2
7		1,462 (57.56)	1,491 (58.70)
8		1,682 (66.22)	1,711 (67.36)

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1206392

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SICK AT A GLANCE

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Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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