SICK.COM



DATA SHEET

BAS3501-C

Backup Assistance System
Object detection systems

SICK Sensor Intelligence



OBJECT DETECTION SYSTEMS

BAS3501-C

ORDERING INFORMATION

Type	part no.
BAS3501-C	1117897

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

DETAILED TECHNICAL DATA

FEATURES

Areas of application	Indoor and outdoor areas (8 m)
Number of laserscanners	1
Vehicles	Internal combustion engine (IC)

MECHANICS/ELECTRONICS

Weight	1,530 g, without connecting cables
Power consumption	10 W (≤ 13 W)
Machine reverse signal voltage	12 V ... 24 V
Machine operating voltage	12 V ... 24 V
Enclosure rating	IP65 / IP67
Laser class	1 (IEC 60825-1:2014, EN 60825-1:2014+A11:2021)

PERFORMANCE

Functions	Visual and acoustic collision warning
Monitored area	Vehicle rear end
Warning zones	2

INTERFACES

USB		✓, micro USB
	Function	Parameterization
Digital		
	Type	Binary
	Function	Machine reverse
HMI		
	Function	For signal light bar For visual and acoustic warning

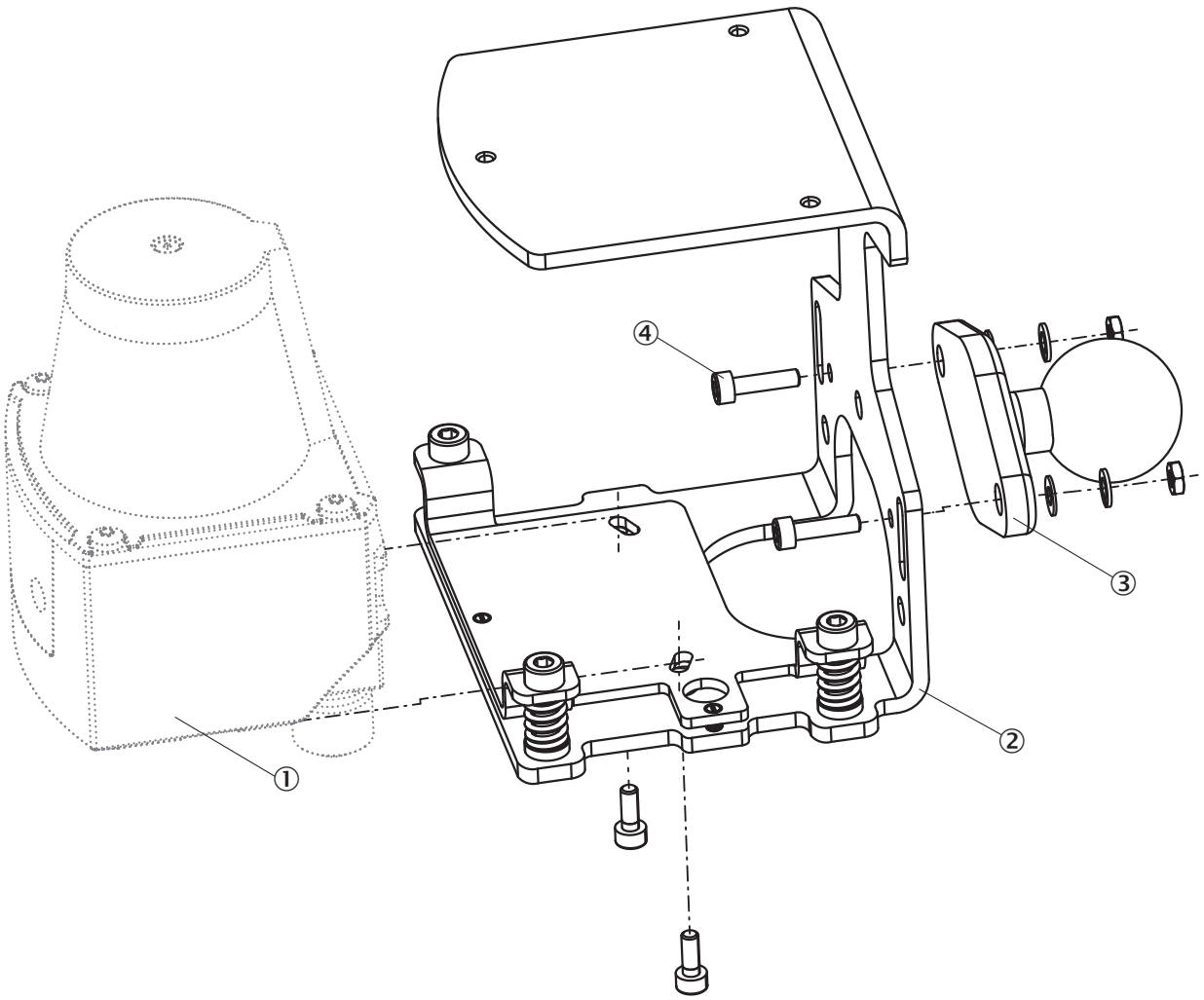
AMBIENT DATA

Ambient operating temperature	–20 °C ... +50 °C
Ambient temperature, storage	–25 °C ... +55 °C

CERTIFICATES

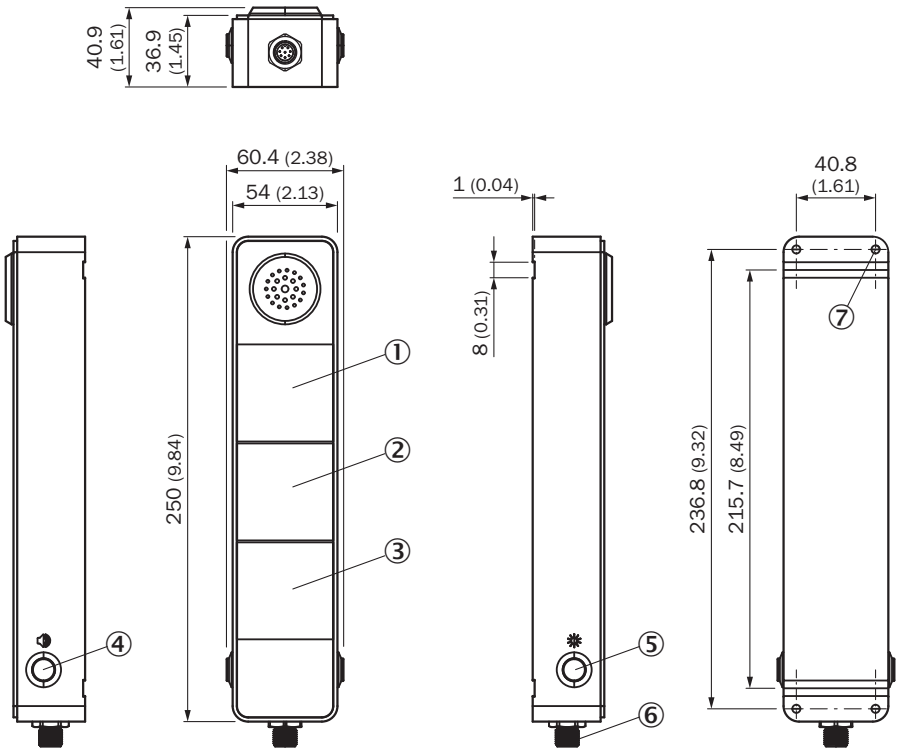
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

DIMENSIONAL DRAWING MOUNTING KIT NOTES



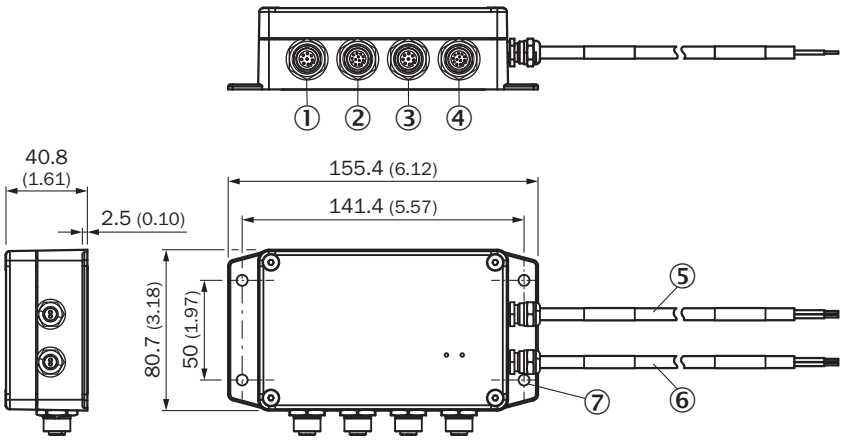
Dimensions in mm (inch)
① TiM3xx 2D LiDAR sensor (included with delivery)
② TiM3xx mounting kit, part no. 2061776 (included with delivery)
③ RAM mount bracket, part no. 5333533 (included with delivery)
④ 2x screws each, nuts, washers (included with delivery)

DIMENSIONAL DRAWING SIGNAL LIGHT BAR WITH BUZZER



Dimensions in mm (inch)
① Red LED segment (visual signal display)
② Yellow LED segment
③ Green LED segment
④ Function button for volume control
⑤ Function button for light intensity levels
⑥ “Power & I/O signal” connection, 8-pin, M12 male connector
⑦ 4 x mounting holes, M5

DIMENSIONAL DRAWING BAS CONTROL UNIT



Dimensions in mm (inch)
① signal light bar 1 connection, 8-pin M12 male connector
② sensor 1 connection, 12-pin M12 male connector
③ signal light bar 2 connection, 8-pin M12 male connector
④ sensor 2 connection, 12-pin M12 male connector
⑤ “voltage supply” connection, 2-pin cable with open ends
⑥ “Reverse from vehicle” connection, 2-pin cable with open ends
⑦ Mounting plate with 4x holes, M5

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/1117897

SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

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

SICK

Sensor Intelligence