



NAV200-1132

NAV2xx

2D LASER SCANNERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
NAV200-1132	1023666

Other models and accessories → www.sick.de/NAV2xx



Detailed technical data

Features

Version	Long Range
Field of application	Outdoor
Light source	Infrared (855 nm)
Laser class	1, eye-safe
Aperture angle	360°
Scanning frequency	8 Hz
Angular resolution	0.001°, on reflectors 0.25°, on raw / contour data
Operating range	1.2 m ... 28.5 m (28.5 m on reflectors)
Max. range with 10 % reflectivity	28.5 m

Performance

Detectable object shape	Reflector
Reflector memory	Max. 5,120 (in 160 layers)
Positioning accuracy	± 4 mm
Integrated application	Navigation

Interfaces

Serial (RS-232)	✓
Function	Host, AUX
Data transmission rate	9.6 kBaud ... 115.2 kBaud, 19,200 Baud
Function	Host
Data transmission rate	10/100 MBit/s
Protocol	TCP/IP
Optical indicators	4 LEDs (status displays)

Mechanics/electronics

Electrical connection	1, 1 x Flange plug, round 8 pin for DC 24 V power supply, Flange plug, round 14 pin for RS-232 data interface
Operating voltage	≥ 24 V DC, ± 25 %
Power consumption	24 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)
Enclosure rating	IP 65 (EN 60529)
Protection class	I
Weight	3.3 kg
Dimensions (L x W x H)	176 mm x 178 mm x 115 mm ¹⁾

¹⁾ Without plug.

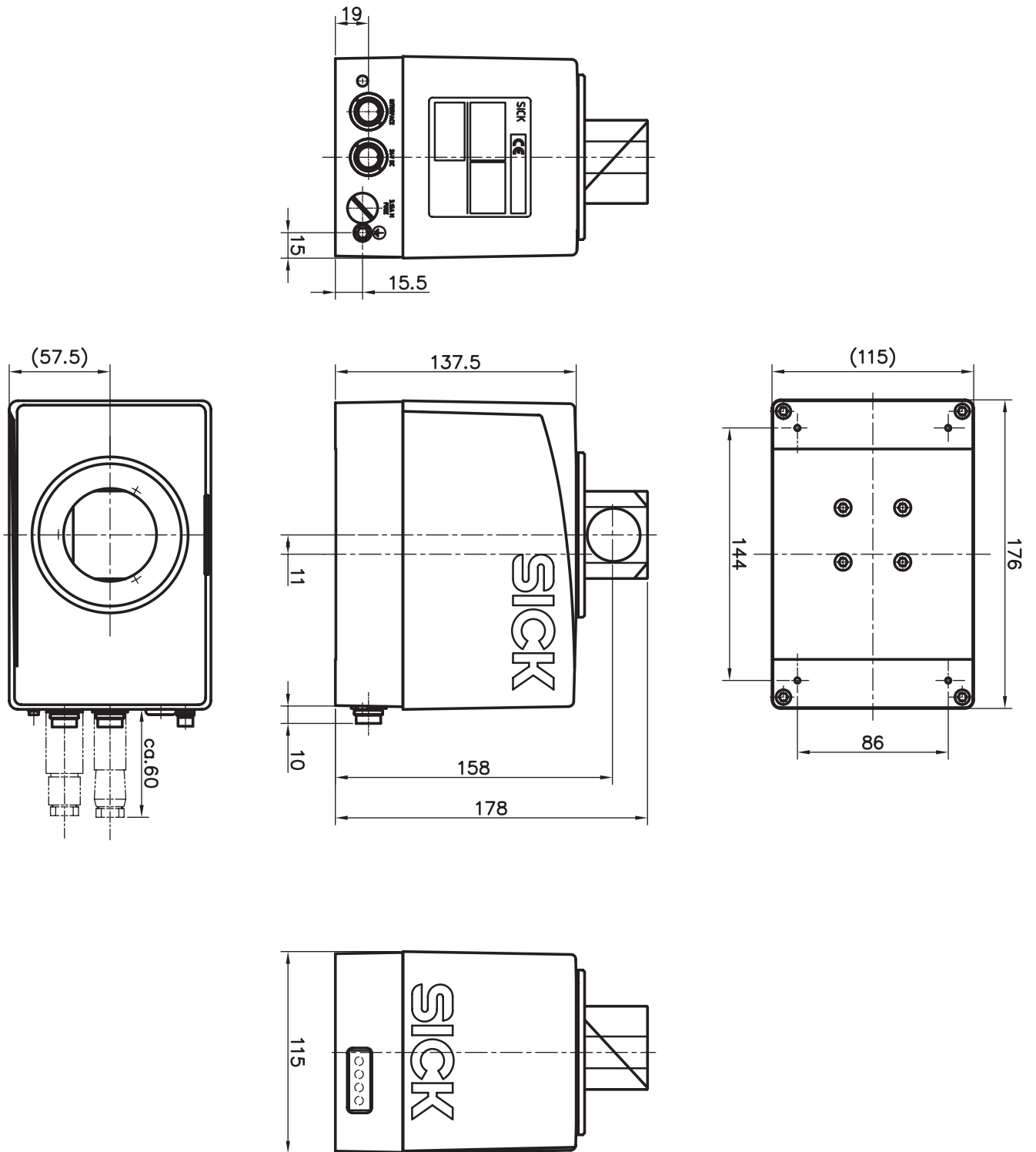
Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2 / EN 61000-6-4
Vibration resistance	IEC 68-2-6
Shock resistance	IEC 68-2-29
Ambient operating temperature	0 °C ... +50 °C
Storage temperature	-20 °C ... +70 °C
Permissible relative humidity	± 90 %, Non-condensing
Reflector marks (recommended)	Stripes: Width > 100 mm; height > 500 mm, cylindrical: diameter > 80 mm; height > 500 mm

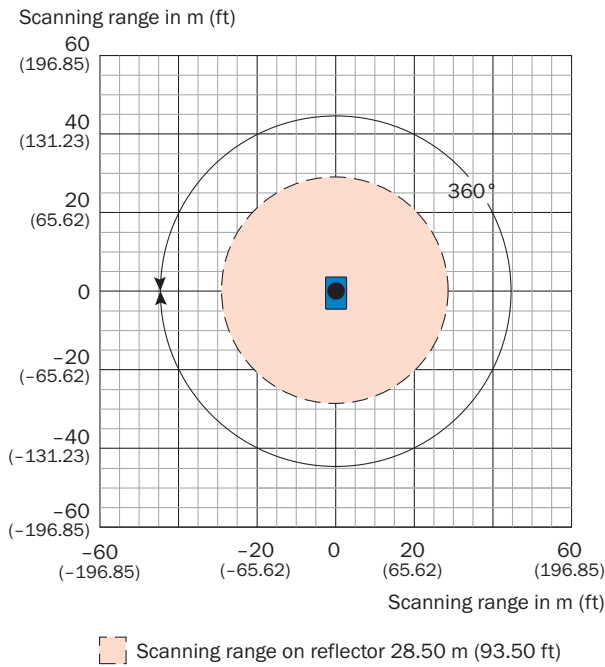
General notes

Note on use	Not suitable for personnel protection
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Dimensional drawing (Dimensions in mm (inch))












Operating range diagram



Recommended accessories

Other models and accessories → www.sick.de/NAV2xx

	Brief description	Type	Part no.
Mounting brackets and mounting plates			
	1 piece, mounting bracket for rear mounting on wall or machine	Mounting kit 1a	2034324
	1 piece, mounting bracket for rear mounting on wall or machine with protection of optics hood	Mounting kit 1b	2034325
	1 piece, mounting bracket, adjustable lateral axis, only in conjunction with mounting kit 1a (2034324) or 1b (2034325)	Mounting kit 2	2039302
	1 piece, mounting plate, adjustable longitudinal axis, only in conjunction with mounting kit 2 (2039302)	Mounting kit 3	2039303
Plug connectors and cables			
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: cable Cable: shielded, 5 m	Connecting cable (female connector - open)	6036159
	Head A: male connector, M12, 8-pin, straight, A-coded Head B: cable Cable: shielded, 5 m	Connecting cable (plug-open)	6036155

	Brief description	Type	Part no.
	Head A: female connector, D-Sub, 9-pin, straight Head B: female connector, straight Cable: RS-232, shielded, 5 m For connecting NAV system and a vehicle	Connection cable	6024723
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 8-pin, straight Cable: Ethernet, drag chain use, PUR, shielded, 5 m	SSL-2J04-G05ME	6034415
	Head A: female connector, round plug, 8-pin, straight Head B: - Cable: shielded	Female connector	6024722

Australia

Phone +61 3 9457 0600
1800 33 48 02 - tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail marketing@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Česká republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail info@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 5309 2112
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederland

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail sales.gsg@sick.com

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 - tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com