





2D LIDAR SENSORS

NAV340-3232 | NAV3xx

2D LIDAR SENSORS



Ordering information

Туре	Part no.
NAV340-3232	1060821

Other models and accessories -> www.sick.com/NAV3xx

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Detailed technical data

Features

Application	Indoor
Light source	905 nm
Laser class	1 (IEC 60825-1:2014, EN 60825-1:2014)
Aperture angle	
Horizontal	360°
Scanning frequency	8 Hz, ± 5 %
Angular resolution	0.25°
Working range	0.5 m 250 m (0.5 m 70 m on reflectors)
Scanning range	
At 10% remission factor	35 m
At 90% remission factor	100 m

Mechanics/electronics

Connection type	3 x M12 male connector/female connector	
Supply voltage	24 V DC, ± 15 %	
Power consumption	36 W	
Housing	Aluminum die cast	
Housing color	Light blue (RAL 5012)	
Enclosure rating	IP65	
Protection class	III	
Weight	2.4 kg	
Dimensions (L x W x H)	115 mm x 120.5 mm x 222 mm	
МТВБ	86 years	
Safety-related parameters		

Safety-related parameters

MTTF _D	> 100 years

Performance

Detectable object shape	Almost any
Systematic error	± 10 mm (RDI) ¹⁾ ± 15 mm (Contour) ¹⁾
Statistical error	15 mm (Contour) ¹⁾

¹⁾ Typical value; actual value depends on environmental conditions.

Interfaces

Ethernet	✓, TCP/IP, RS-232
Data transmission rate	100 Mbit/s 19.2 kBaud 115 kBaud
Digital outputs	1 (digital)
Optical indicators	4 LEDs (status displays)
Analaisent data	

Ambient data

Ambient operating temperature	0 °C +50 °C
Storage temperature	-20 °C +80 °C
Permissible relative humidity	85 %, Non-condensing
Reflector marks (recommended)	Stripes: width ≥ 80 mm

General notes

Note on use	The sensor does not constitute a safety component as defined by relevant legislation on ma- chine safety.

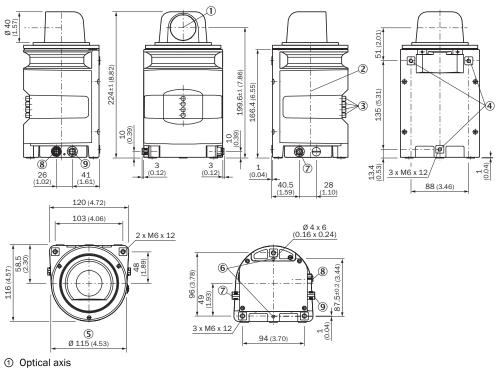
Classifications

ECLASS 5.0	27270990
ECLASS 5.1.4	27270990
ECLASS 6.0	27270913
ECLASS 6.2	27270913
ECLASS 7.0	27270913
ECLASS 8.0	27270913
ECLASS 8.1	27270913
ECLASS 9.0	27270913
ECLASS 10.0	27270913
ECLASS 11.0	27270913
ECLASS 12.0	27270913
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	41111615

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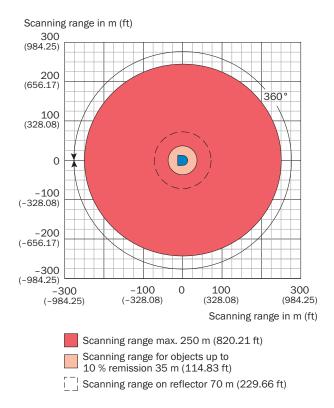
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Dimensional drawing (Dimensions in mm (inch))



- Zero level
- 3 LED (from top: yellow, yellow, green, red)
- ④ Mounting hole M6 x 12
- ⑤ Rotating diameter
- 6 Aligning pin
- RS-232 connection (M12 x 8, male connector)
- (8) Ethernet connection (M12 x 4, female connector)
- Power supply connection (M12 x 5. male connector)

Working range diagram



Recommended accessories

Other models and accessories → www.sick.com/NAV3xx

	Brief description	Туре	Part no.		
Plug connecto	Plug connectors and cables				
\$ \$	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 4-pin, straight Signal type: Ethernet, PROFINET Cable: 5 m, 4-wire, PUR, halogen-free Description: Ethernet, PROFINET, shielded Application: Drag chain operation, Zones with oils and lubricants 	YM2D24- 050PN1MRJA4	2106184		
Reflectors	Reflectors				
	Reflective tape "Diamond Grade", self-adhesive, sheet, 749 mm x 914 mm, self-adhe- sive	REF-DG	5320565		
Others	Others				
	 Connection type head A: Female connector, M12, 5-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Connection systems: Flying leads Application: Zones with oils and lubricants, Drag chain operation 	DOL-1205- G05MAC25	6043440		

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	Brief description	Туре	Part no.
×.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation 	YF2A28- 050UA6XLEAX	2095835

Recommended services

Additional services -> www.sick.com/NAV3xx

	Туре	Part no.		
Commissioning				
 Product area: 2D LiDAR sensors, 3D LiDAR sensors Range of services: Inspection of connection, fine adjustment, configuration of monitored areas, configuration and optimization of parameters as well as tests, Setup of previously defined functions of basic settings, parameters of field application, filters for raw data output and product-specific configuration Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Commissioning LiDAR sensors	1680672		
Maintenance				
 Product area: 2D LiDAR sensors, 3D LiDAR sensors Range of services: Inspection, analysis and restoring of defined functions, Inspection and adaptation of basic settings, parameters of field application, filters for raw data output, and product-specific configuration Duration: Additional work will be invoiced separately Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. 	Maintenance of LiDAR sensors	1682593		
Extended warranty				
 Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671		

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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:

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Online data sheet

