



Laser scanners NAV / NAV200 / Indoor / Mid Range

NAV200-1132



Model Name > [NAV200-1132](#)
Part No. > [1023666](#)



At a glance

- Simple integration via standard interface
- Accurate reflector position measurements
- Navigation with only 3 reflectors
- Immune to unwanted reflections
- Precise position information (X, Y, alpha)
- Output data for remote diagnostics

Your benefits

- Integrated measurement data evaluation reduces the computing effort in vehicle computers, saving time
- Track guidance without reflector marks increases application flexibility
- The positioning system allows maximum freedom in the design of the vehicle
- Economical, even for small and medium-sized vehicles
- Simple alteration and teach-in of routes gives user more control over the application
- Accurate measurements, even under harsh environmental conditions

The product has been discontinued. Please follow the "replacement product" link for information about alternative products.



Features

Field of application:	Indoor
Version:	Mid Range
Light source:	Infrared (855 nm)
Laser class:	1, eye-safe
Field of view:	360 °
Scanning frequency:	8 Hz
Angular resolution:	0.1 °
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
Integrated application:	Navigation

Reflector memory:	Max. 5,120 (in 160 layers)
Positioning accuracy:	± 4 mm

Interfaces

Serial (RS-232):	✓
Data transmission rate (Serial (RS-232)):	19,200 Baud
Ethernet:	-
CAN bus:	-
PROFIBUS DP:	-
PROFINET:	-
DeviceNet:	-
Optical indicators:	4 LEDs (status displays)

Mechanics/electronics

Electrical connection:	1 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:	Die-cast aluminum
Housing color:	Light blue (RAL 5012)
Enclosure rating:	IP 65 (EN 60529)
Protection class:	I
Weight:	3.3 kg
Dimensions:	176 mm x 178 mm x 115 mm ¹⁾

¹⁾ Without plug

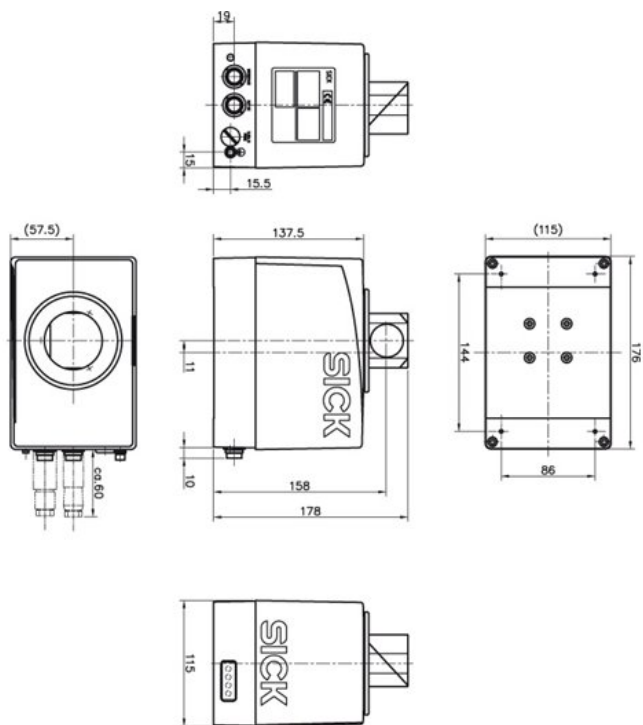
Ambient data

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:	Stripes: Width > 100 mm; height > 500 mm, Cylindrical: diameter > 80 mm; height > 500 mm

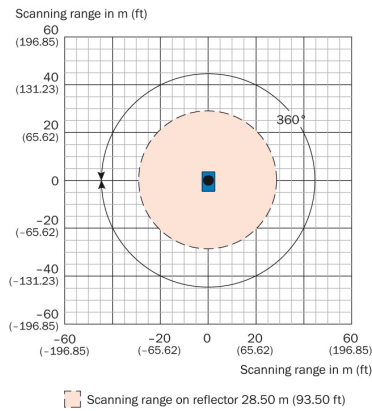
General notes

Note on use:	Not suitable for personnel protection
Life cycle phase:	Phased out

Dimensional drawing



Operating range diagram



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