

NAV / NAV200 / Indoor / Mid-Range

NAV200-1132



**SICK**  
Sensor Intelligence.

**Model Name** NAV200-1132  
**Part Number** 1023666



At a glance

- Simple integration via standard interface
- Accurate measuring-in of reflector positions possible
- Navigation with only 3 reflectors
- Immune to spurious reflections
- Precise position information (X, Y, alpha)
- Output data for remote diagnosis

Your benefits

- Integrated measurement data evaluation reduces the computing effort in vehicle computers
- Line guidance possible without reflector marks using the NAV300
- The positioning system allows maximum freedom in the design of the vehicle concept
- Economical even for small and medium-sized vehicles
- Simple alteration and teach-in of routes possible

**Features**

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Type :	Mid-Range
Field of application :	Indoor
Light source :	Infrared (855 nm)
Laser class :	1, Eye-safe
Field of view :	360 °
Scanning frequency :	8 Hz
Operating range :	1.2 m ... 28.5 m
Angular resolution :	0.1 °
Angle error :	0.1 °

## Interfaces

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Serial (RS-232) :	✓
Data transmission rate (Serial (RS-232)) :	19,200 Baud
Ethernet :	-
CAN-Bus :	-
PROFIBUS :	-
PROFINET :	-
DeviceNet :	-
Optical indicators :	4 LED (Status displaysStatus display)

## Mechanics/electronics

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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 color :	Light gray (RAL 5012), Black
Enclosure rating :	IP 65 (EN 60529)
Protection class :	1
Weight :	3.3 kg
Dimensions :	176 mm x 178 mm x 115 mm (without plug)
Housing :	Aluminium die-cast

## Ambient data

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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

## Performance

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Reflector memory :	Stripes: Width > 100 mm; height > 500 mm, Cylindrical: Diameter > 80 mm; height > 500 mm
Positioning accuracy :	± 4 mm



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