



# AOS2001-AC WWD

AOS Radar

OBJECT DETECTION SYSTEMS

**SICK**  
Sensor Intelligence.



### Ordering information

Version/Application	Items supplied	Type	Part no.
North America and Latin America	RMS2000 radar sensor Telematic Data Collector TEMS-based "Wrong Way Driver" software on the Telematic Data Collector Mounting bracket Connecting cables Mounting rail bracket System documentation and interface description Quick Start guide including download link for the operating instructions	AOS2001-AC WWD	1133091

**Included in delivery:** TDC-E210AC (1), RMS2831C-636511 (1), Mounting kit 1 (1), Mounting rail bracket (1), YF2A18-200UA5XLEAX (1), YM2D24-200PN1MRJA4 (1), Connecting cable, 14-pin (1)

Other models and accessories → [www.sick.com/AOS\\_Radar](http://www.sick.com/AOS_Radar)



### Detailed technical data

#### Features

<b>Sensor</b>	RMS2000
<b>Aperture angle</b>	± 4°, vertical ± 60°, Horizontal (can be adapted)
<b>Scanning range</b>	5 m ... 150 m
<b>Version</b>	North America and Latin America

#### Mechanics/electronics

<b>Housing dimensions (W x D x H)</b>	34 mm x 97 mm x 96 mm (RMS2000) 162 mm x 32 mm x 101 mm (TDC-E)
<b>Supply voltage</b>	24 V (9 V ... 32 V)
<b>Installation position</b>	Above or next to the lane (0.4 m ... 5 m)
<b>Machine operating voltage</b>	9 V ... 32 V, 24 V
<b>Enclosure rating</b>	IP67 <sup>1)</sup> IP20 (according to DIN EN 60529) <sup>2)</sup>

<sup>1)</sup> RMS2000.

<sup>2)</sup> TDC-E.

#### Performance

<b>Driving speed</b>	10 km/h ... 200 km/h
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#### Interfaces

<b>Inputs/outputs</b>	
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<sup>1)</sup> Analog measurement of voltage (0 - 36 V) with an accuracy of ±(0.2%+30 mV), current (0 - 32 mA), with an accuracy of ±(1%+0.1 mA), input resistance 27.5 kΩ typical for voltage mode, 100 Ω typical for current mode.

	I/O	6 analog inputs (configurable, current and voltage), 6 digital inputs/outputs (configurable), 2 additional digital inputs, 2 additional digital outputs <sup>1)</sup>
<b>Ethernet</b>		✓ (2)
	Data transmission rate	10 Mbit/s ... 1,000 Mbit/s
	Electrical connection	RJ45
<b>Modem</b>		✓, 4G
	Data transmission rate	≤ 150 Mbit/s, Full 4G performance cannot be guaranteed on operating temperature over 60°C.
<b>WLAN</b>		✓
	Data transmission rate	≤ 65 Mbit/s, single band 2.4 GHz
	Protocol	IEEE 802.11 b/g/n
<b>Output data</b>		Time Lane assignment Trajectory Driving direction Speed Validity status Wrong way driver alarm via I/Os, TCP/IP, mobile communications or MQTT

<sup>1)</sup> Analog measurement of voltage (0 - 36 V) with an accuracy of  $\pm(0.2\%+30 \text{ mV})$ , current (0 - 32 mA), with an accuracy of  $\pm(1\%+0.1 \text{ mA})$ , input resistance 27.5 k $\Omega$  typical for voltage mode, 100  $\Omega$  typical for current mode.

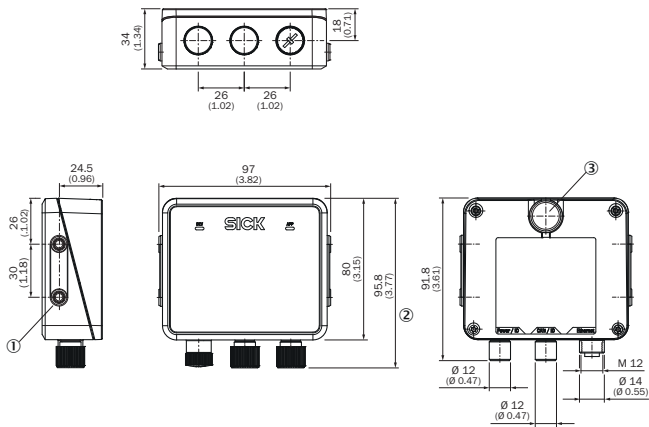
## General notes

<b>Items supplied</b>	RMS2000 radar sensor Telematic Data Collector TEMS-based "Wrong Way Driver" software on the Telematic Data Collector Mounting bracket Connecting cables Mounting rail bracket System documentation and interface description Quick Start guide including download link for the operating instructions
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## Classifications

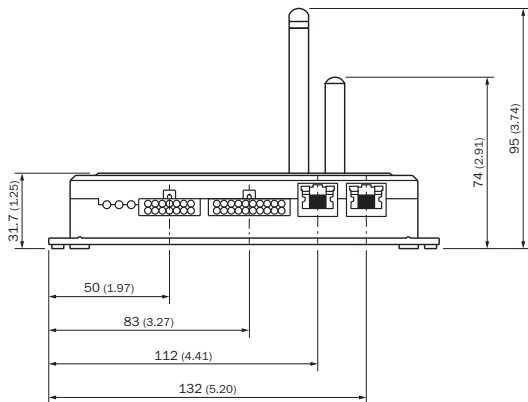
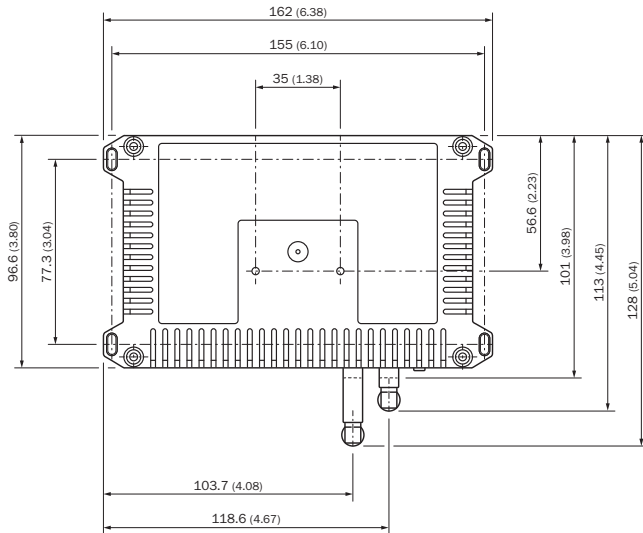
<b>ECLASS 5.0</b>	27280801
<b>ECLASS 5.1.4</b>	27280801
<b>ECLASS 6.0</b>	27280890
<b>ECLASS 6.2</b>	27280890
<b>ECLASS 7.0</b>	27280890
<b>ECLASS 8.0</b>	27280890
<b>ECLASS 8.1</b>	27280890
<b>ECLASS 9.0</b>	27280890
<b>ECLASS 10.0</b>	27280890
<b>ECLASS 11.0</b>	27280890
<b>ECLASS 12.0</b>	27280890

Dimensional drawing (Dimensions in mm (inch))



Structure and device dimensions, unit: mm (inch), decimal separator: period

- ① 4 x M5 blind tapped holes, 7.5 mm deep for mounting the device
- ② Dimension with protective cap mounted on the connections
- ③ Pressure compensation diaphragm



## SICK AT A GLANCE

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:

Contacts and other locations –[www.sick.com](http://www.sick.com)