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DATA SHEET

AOS2001-AC WWD

AOS Radar
Object detection systems

SICK Sensor Intelligence



OBJECT DETECTION SYSTEMS

AOS2001-AC WWD

ORDERING INFORMATION

Type	part no.
AOS2001-AC WWD	1133091

Further device versions and accessories at www.sick.com/AOS_Radar

DETAILED TECHNICAL DATA

FEATURES

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

MECHANICS/ELECTRONICS

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

[1] RMS2000.

[2] TDC-E.

PERFORMANCE

Driving speed	10 km/h ... 200 km/h
Detection accuracy	Very precise (100% is excluded)
False positives	Location-dependent

INTERFACES

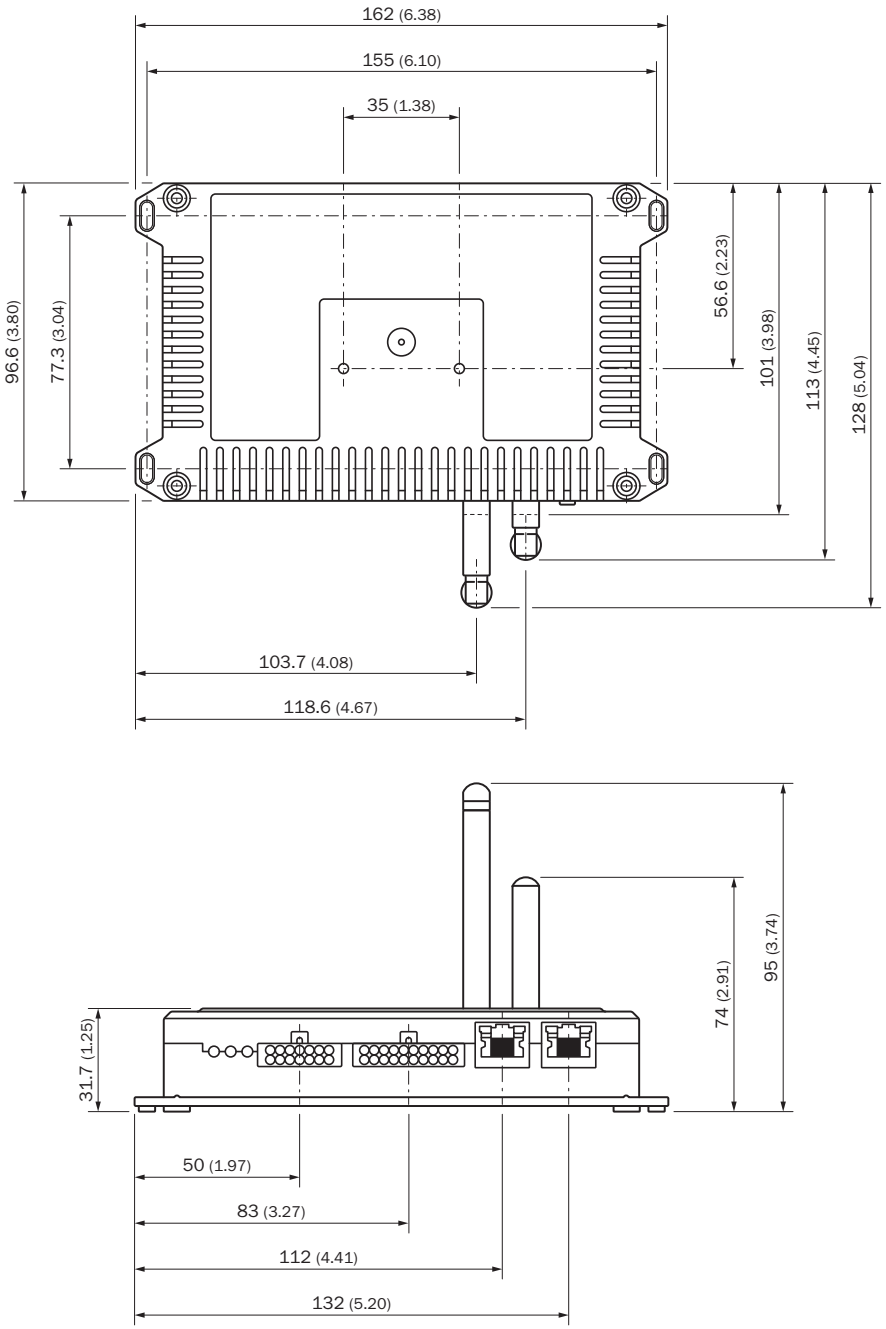
Inputs/outputs		
	I/O	6 analog inputs (configurable, current and voltage), 6 digital inputs/outputs (configurable), 2 additional digital inputs, 2 additional digital outputs [1]
Ethernet		✓ (2)
	Data transmission rate	10 Mbit/s ... 1,000 Mbit/s
	Electrical connection	RJ45
-		✓ , modem
	Data transmission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

[1] 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.

GENERAL NOTES

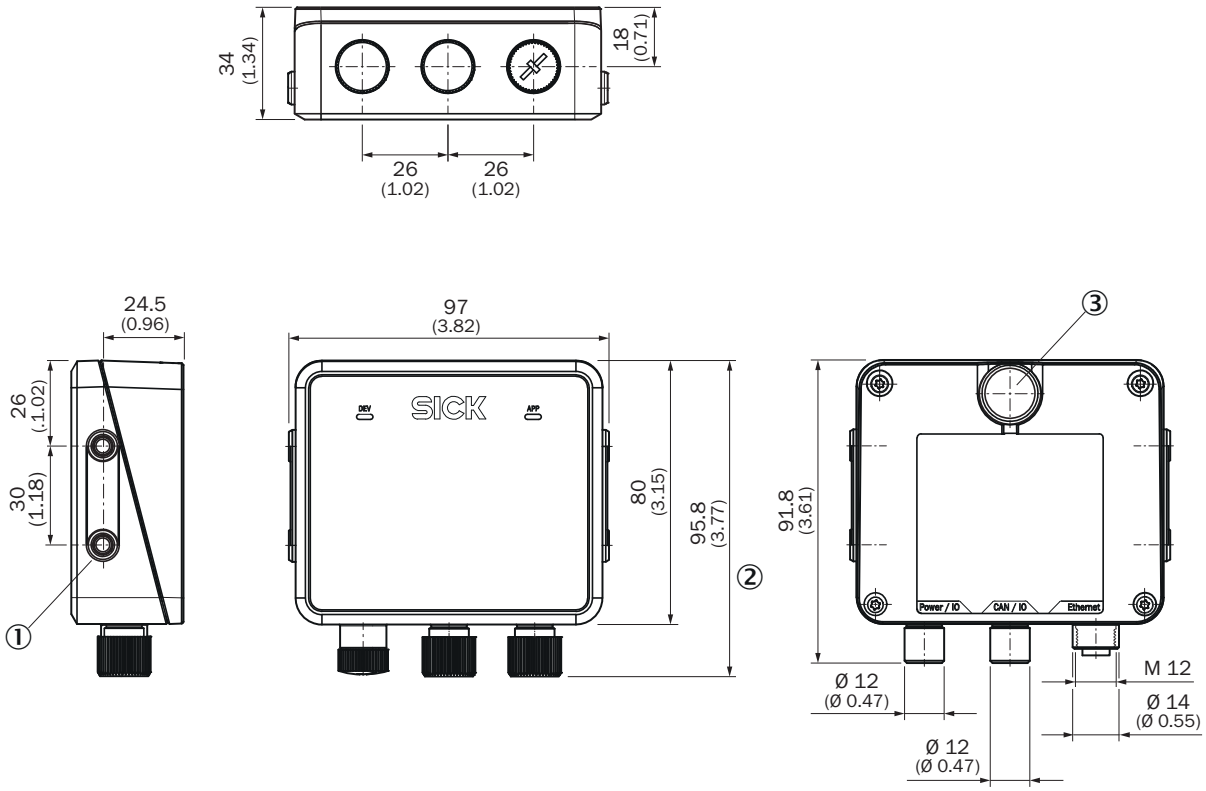
Items supplied	RMS2000 radar sensor Telematic Data Collector TEMS-based “Wrong Way Driver” software on the Telematic Data Collector Mounting bracket Connecting cables Mounting rail bracket System documentation and interface description Quick Start guide including download link for the operating instructions

DIMENSIONAL DRAWING



Dimensions in mm (inch)

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

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1133091

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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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