Data sheet

AOS2001-AC WWD

AOS Radar

OBJECT DETECTION SYSTEMS

SICK
Sensor Intelligence.

Ordering information

Type	part no.
AOS2001-AC WWD	1133091

Included in delivery: TDC-E210AC (1), RMS2731C-636511 (1), YF2A18-200UA5XLEAX (1), YM2D24-200PN1MRJA4 (1), Mounting kit 1 (1), Connecting cable, 14-pin (1), Mounting rail bracket (1)

Other models and accessories ➜ 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	
Data transmission rate	10 Mbit/s ... 1,000 Mbit/s
	≤ 150 Mbit/s, Full 4G performance cannot be guaranteed on operating temperature over 60 °C.
Electrical connection	RJ45
Wireless LAN	
Data transmission rate	≤ 65 Mbit/s, single band 2.4 GHz
Protocol	IEEE 802.11 b/g/n

[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.

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.

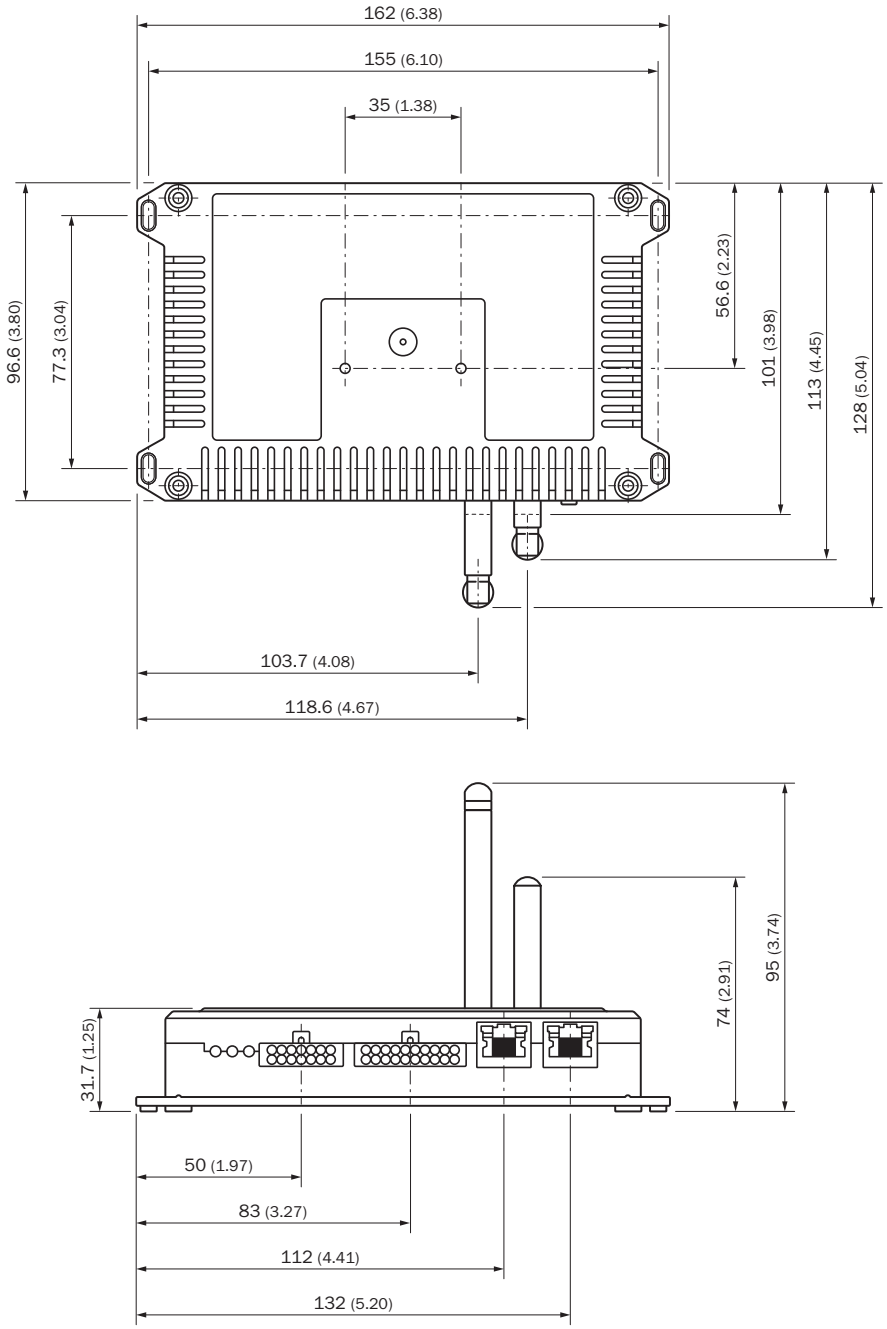
General notes

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

Classifications

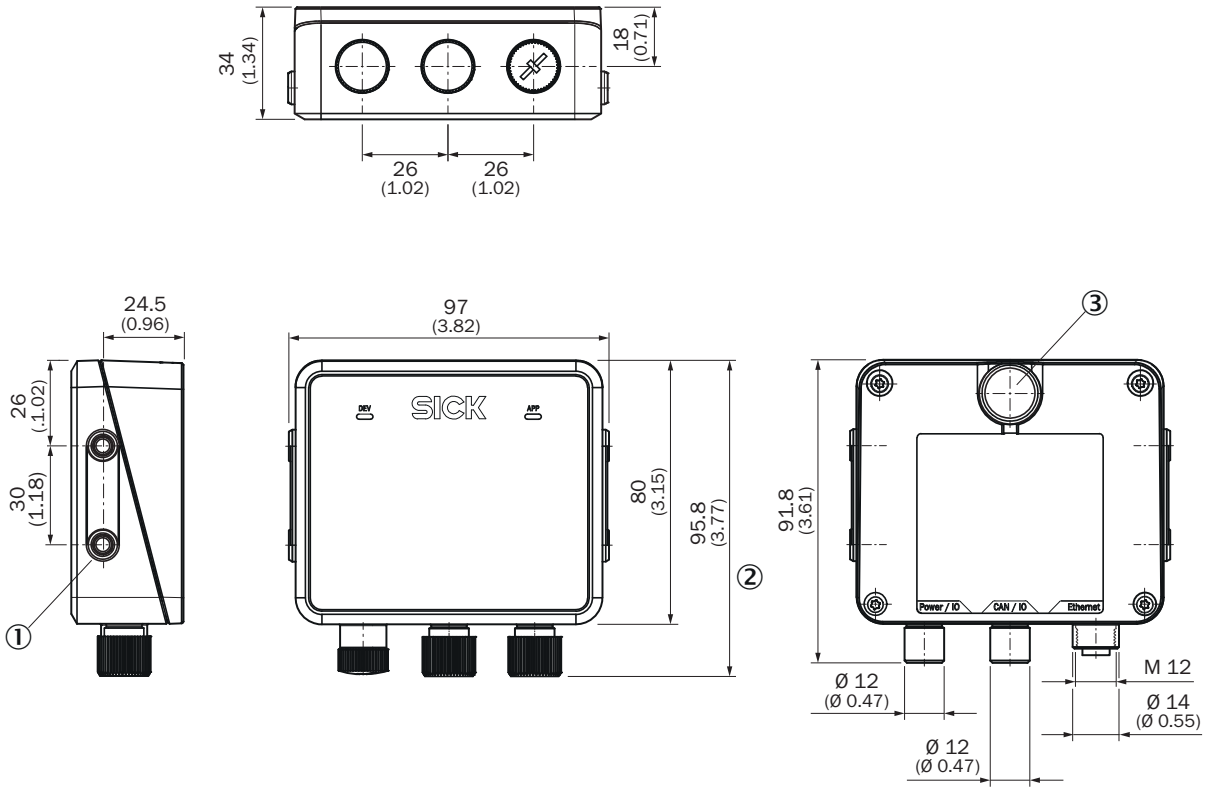
ECLASS 5.0	27280801
ECLASS 5.1.4	27280801
ECLASS 6.0	27280890
ECLASS 6.2	27280890
ECLASS 7.0	27280890
ECLASS 8.0	27280890
ECLASS 8.1	27280890
ECLASS 9.0	27280890
ECLASS 10.0	27280890
ECLASS 11.0	27280890
ECLASS 12.0	27280890

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

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

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