RAD-ISM-2400-ANT-OMNI-6-0 - Antenna

2885919

https://www.phoenixcontact.com/us/products/2885919

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Omnidirectional antenna for wall or mast mounting, 2.4 GHz, gain: 6 dBi, degree of protection: IP67, saltwater-resistant, shock- and vibration-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval

Your advantages

- Ideally suited for stationary 2.4 GHz applications
- For use in potentially explosive areas
- Salt water resistant

Commercial data

Item number	2885919
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNN2Z1
Catalog page	Page 389 (C-6-2019)
GTIN	4046356146319
Weight per piece (including packing)	394.7 g
Weight per piece (excluding packing)	388.7 g
Customs tariff number	85177100
Country of origin	PL

Technical data

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.

Product properties

Product type	Antenna
Scope of delivery	included mounting bracket and mast clamps
Radiation characteristics	Omnidirectional
Gain	6 dBi
Vertical beamwidth	30 °
Horizontal beamwidth	360 °
Polarization	Linear vertical

Electrical properties

Frequency band	2.4 GHz
Frequency range	2.4 GHz ... 2.5 GHz
Impedance	50 Ω
Maximum capacity	25.00 W

Connection data

Connection technology

Connection method	N (female)
Outside diameter	25 mm ... 100 mm (Mast)

Ex data

Safety data

Input voltage U_i	30 V
Input current I_i	600 mA
Input power P_i	≤ 1 W (30 dB)
Max. internal inductance L_i	negligible
Capacitance Ci	negligible

Dimensions

Height	250 mm
Diameter	22 mm

External dimensions

Outside diameter	25 mm ... 100 mm (Mast)

Material specifications

	Fiberglass-reinforced plastic

Material	V2A
	V2A
Flammability rating according to UL 94	HB

Cable/line

Connecting cable	No
Other resistance	salt water resistant

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C
Wind velocity	220 km/h

Approvals

Electronic devices in rail vehicles

Shock (operation)	IEC 60721-3-4, 4M5
Vibration (operation)	IEC 60721-3-4, 4M5 Random

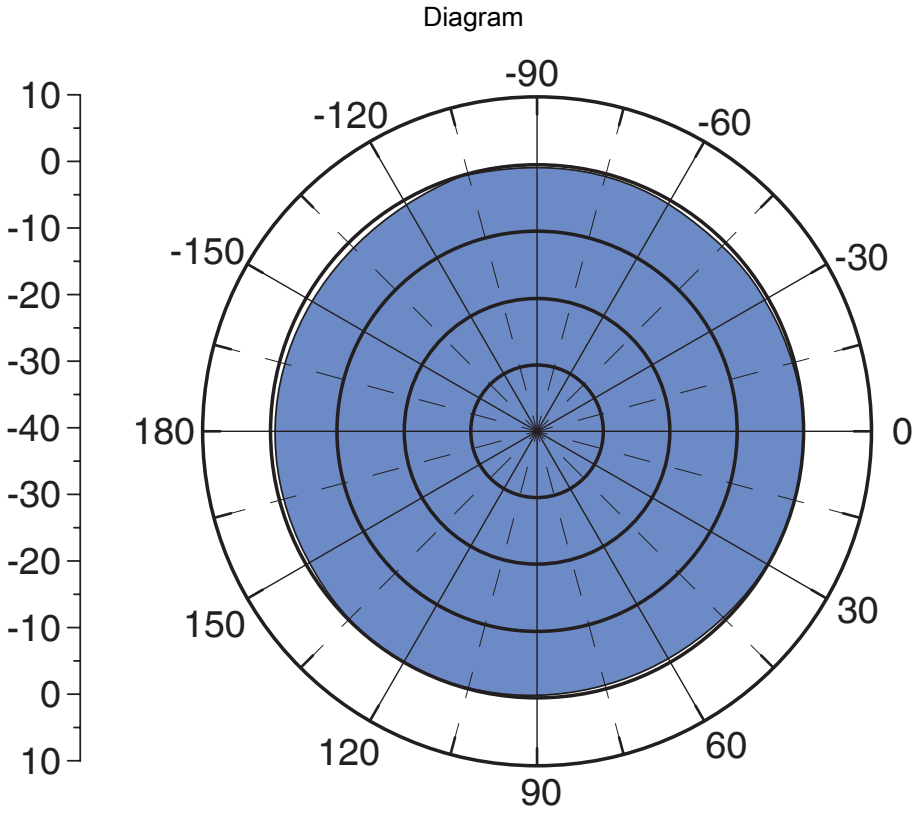
Standards and regulations

Other resistance	salt water resistant
Standards/specifications	EN 60079-0
	EN 60079-11
	EN 60079-26

Mounting

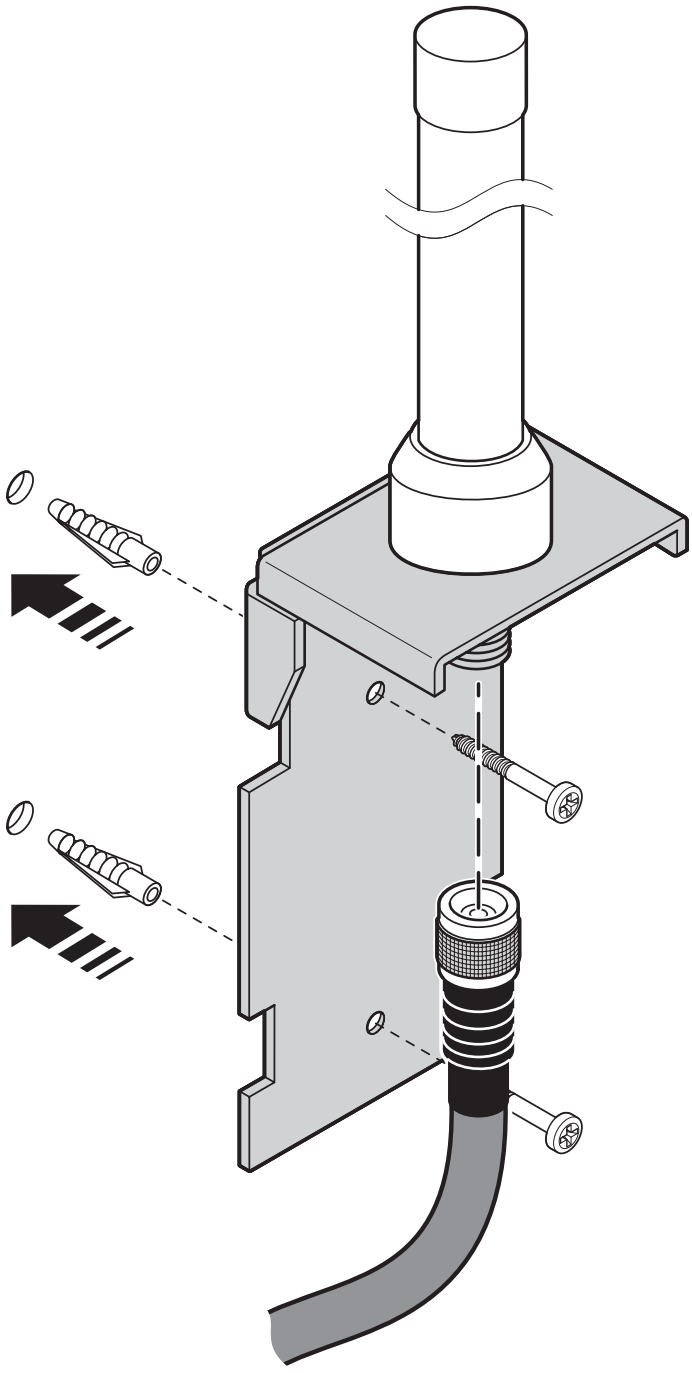
Mounting type	Wall mounting
	Mast mounting
Assembly note	Outdoors and indoors

Drawings



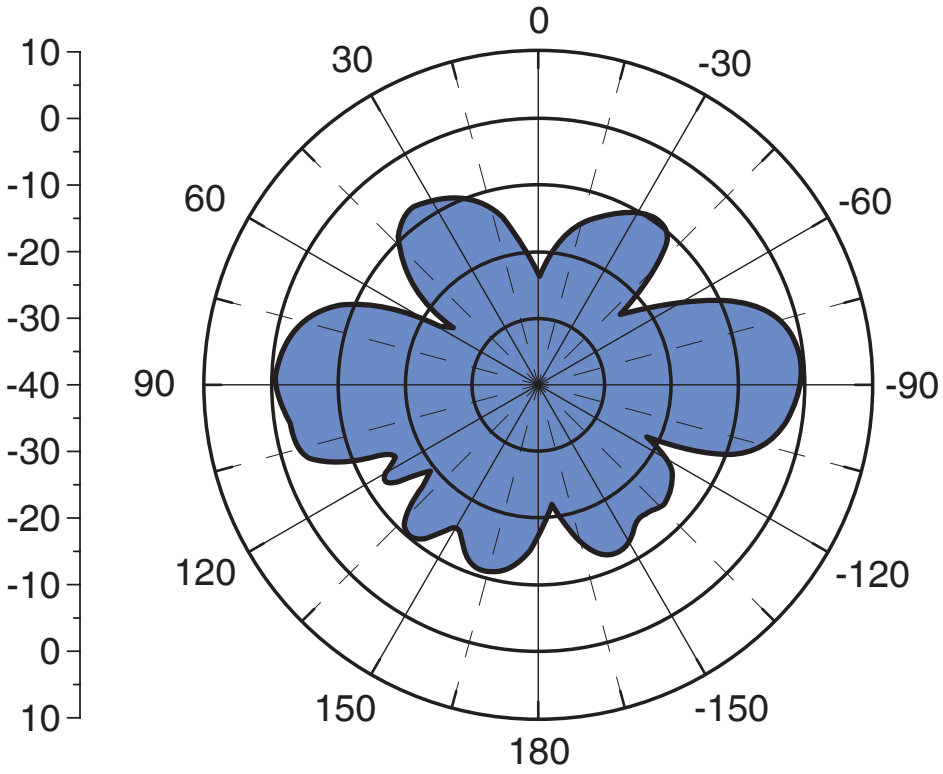
Horizontal

Schematic diagram



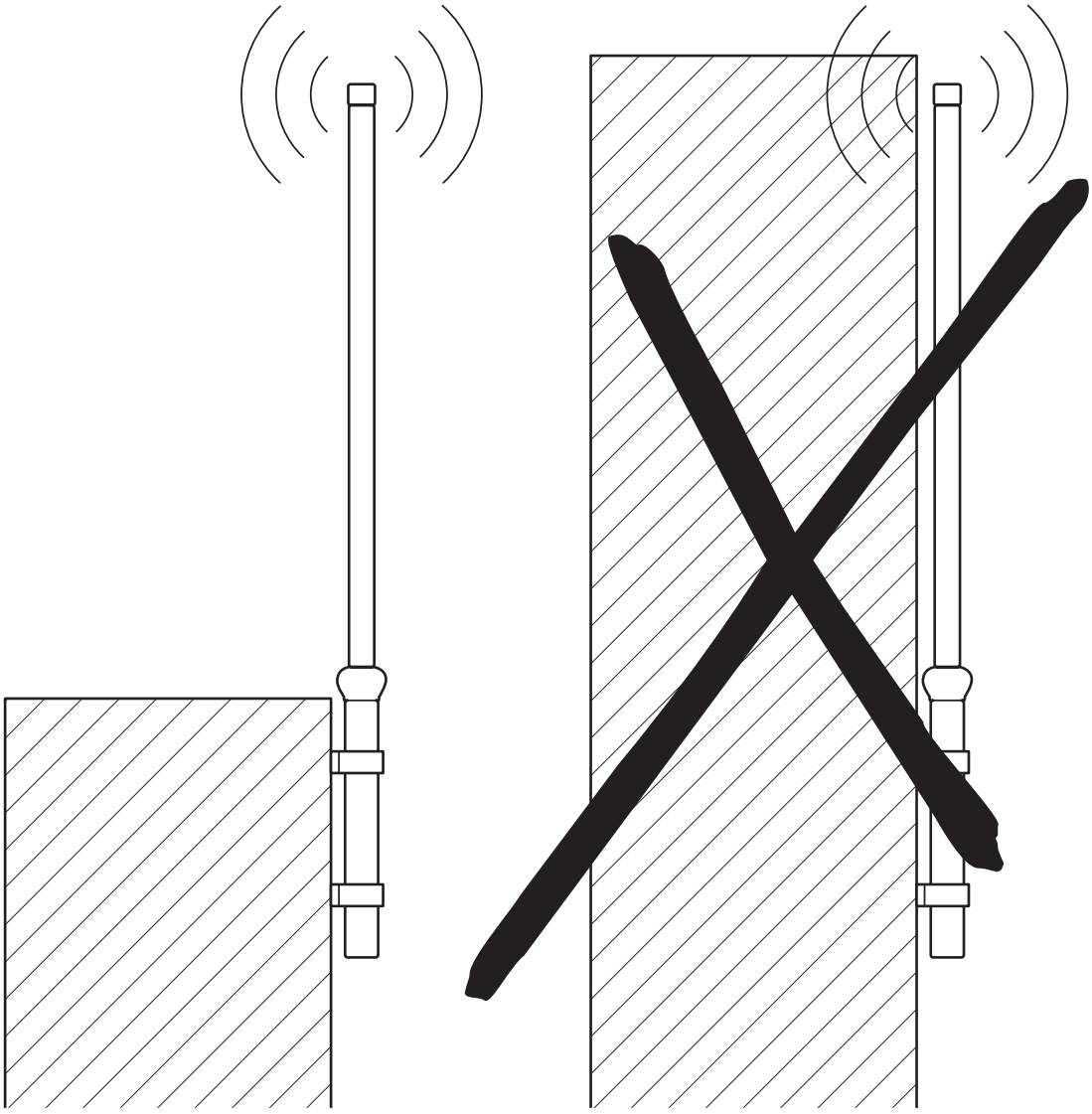
Wall mounting

Diagram



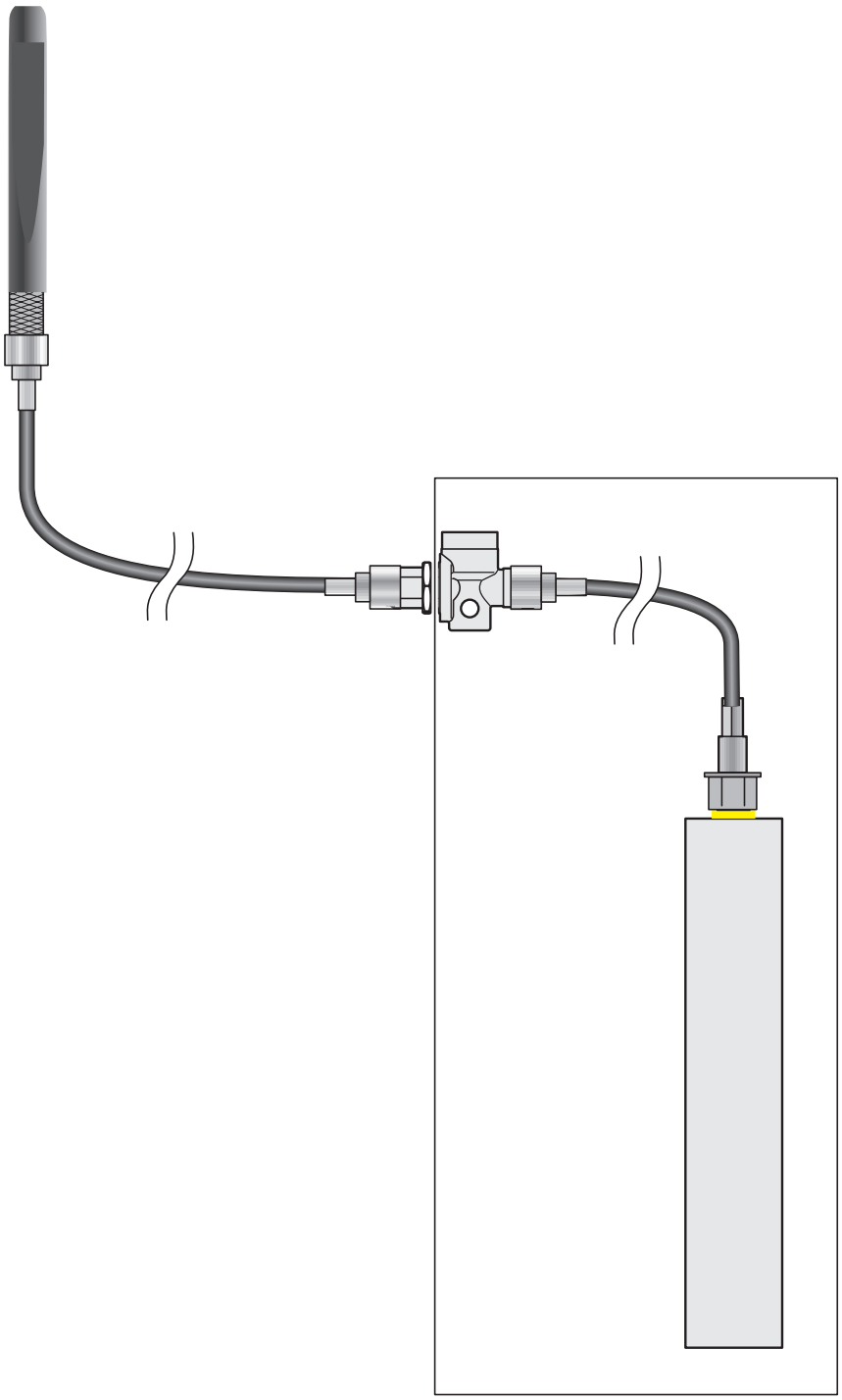
Vertical

Schematic diagram



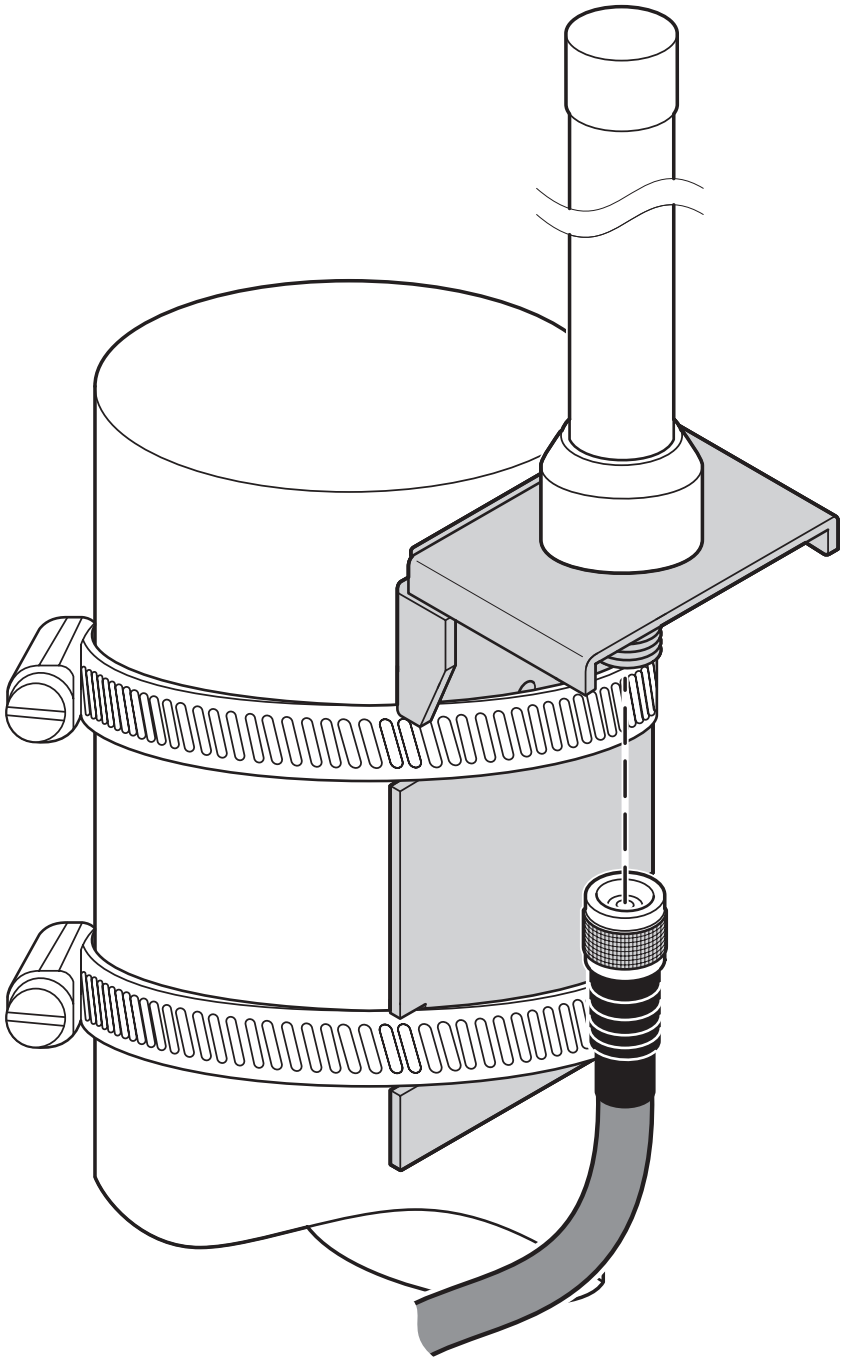
Wall mounting

Schematic diagram



Installation example

Schematic diagram



Mast mounting

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2885919

IECEx
Approval ID: IECEx IBE 14.0039X

ATEX
Approval ID: IBExU 14 ATEX 1116 X

Classifications

ECLASS

ECLASS-11.0	19070105
ECLASS-12.0	19070105
ECLASS-13.0	19070105

ETIM

ETIM 9.0	EC001698

UNSPSC

UNSPSC 21.0	43223100

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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