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

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
- Resistant to salt water

Commercial data

Item number	2885919
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNN2Z1
GTIN	4046356146319
Weight per piece (including packing)	396 g
Weight per piece (excluding packing)	388.7 g
Customs tariff number	85177100
Country of origin	PL

Technical data

Notes

Note on application

Note on application	Only for industrial use

Utilization restriction

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

Product properties

Product type	Antenna
Scope of supply	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
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 1.80

Connection data

Connection technology

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

Ex data

Safety data

Input voltage U_i	max. 30 V
Input current I_i	max. 600 mA
Input power P_i	0.5 W (Maximum HF input power, 27 dBm, group IIC)
	0.87 W (Maximum HF input power, 29.4 dBm, group IIB)
	1.47 W (Maximum HF input power, 31.7 dBm, group IIA)
Max. internal inductance L_i	negligible
Max. internal capacitance C_i	negligible

Dimensions

Height	250 mm
Diameter	22 mm

External dimensions

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

Material specifications

Color	gray white (RAL 9002)
Material (Radom)	PC (glass-fiber reinforced)
Material (Holder)	Stainless steel V2A
Material (Mast clamp)	Stainless steel 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
Air pressure (operation)	80 kPa ... 110 kPa
Wind velocity	220 km/h

Approvals

CE

Certificate	CE-compliant

ATEX

Identification	Ⓔx II 1G Ex ia IIC T6 Ga
Certificate	IBExU14ATEX1116 X
Note	Please follow the special installation instructions in the documentation!

IECEx

Identification	Ex ia IIC T6 Ga
Certificate	IECEx IBE 14.0039X

Electronic devices in rail vehicles

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

Standards and regulations

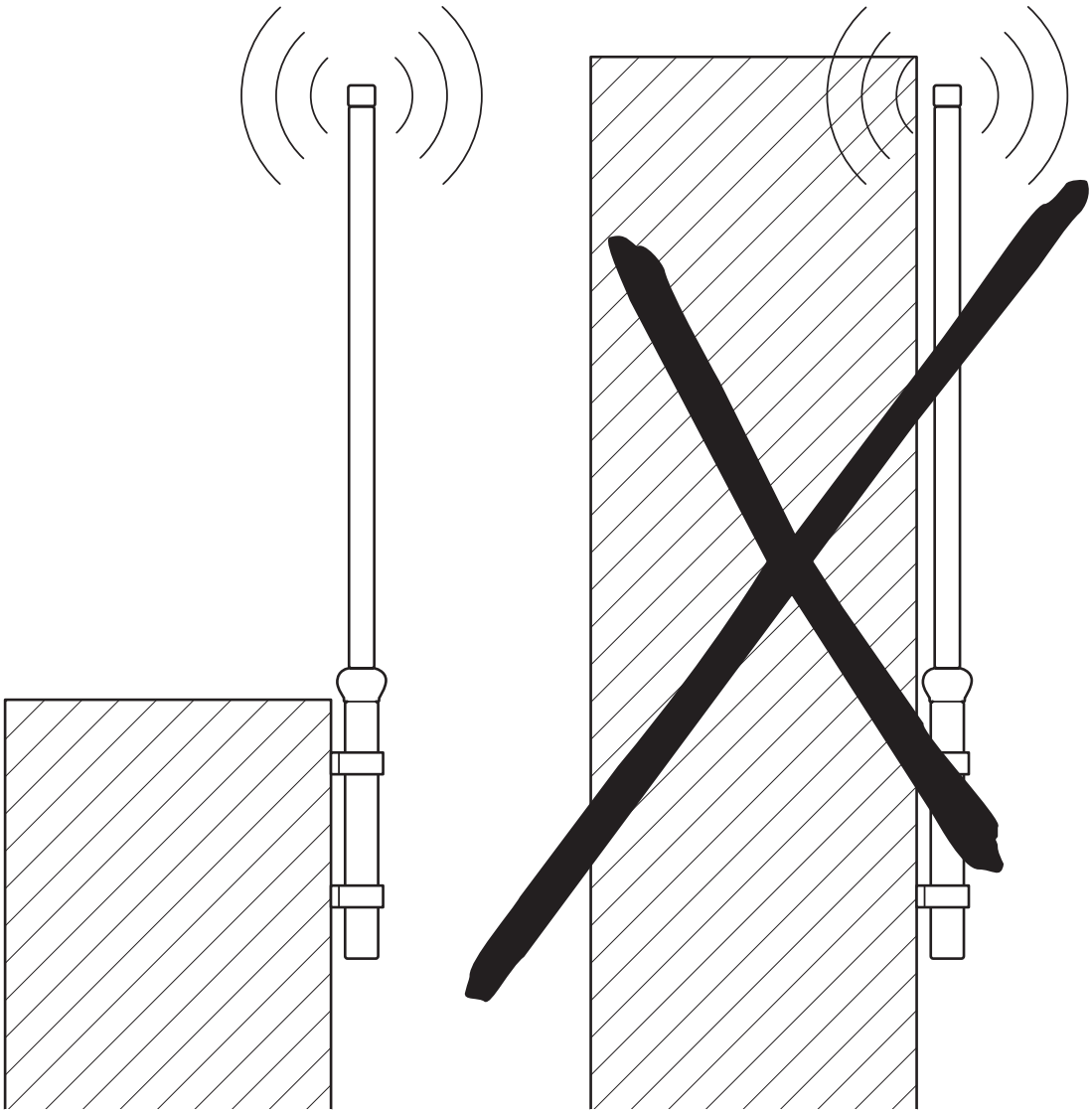
Other resistance	salt water resistant
Standards/specifications	EN 60079-0
	EN 60079-11
	EN 60079-26

Mounting

Mounting type	Panel mounting
	Mast mounting
Assembly note	Outdoors and indoors

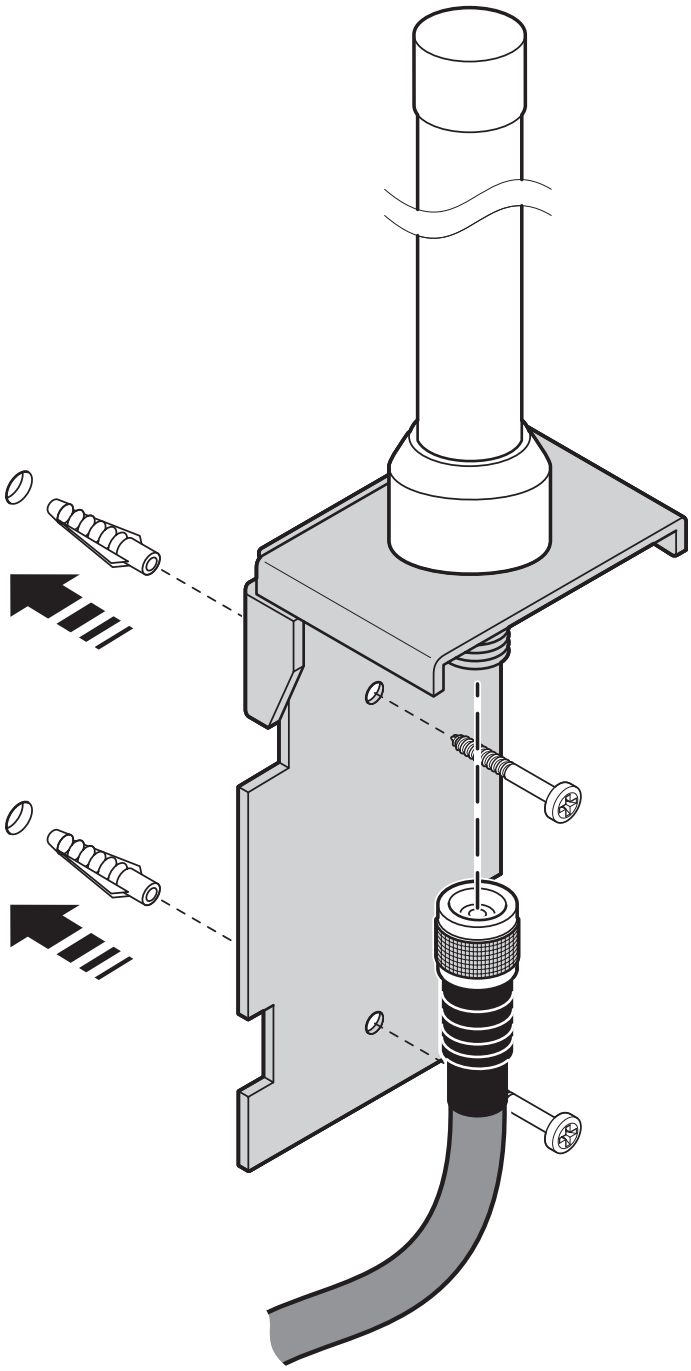
Drawings

Schematic diagram



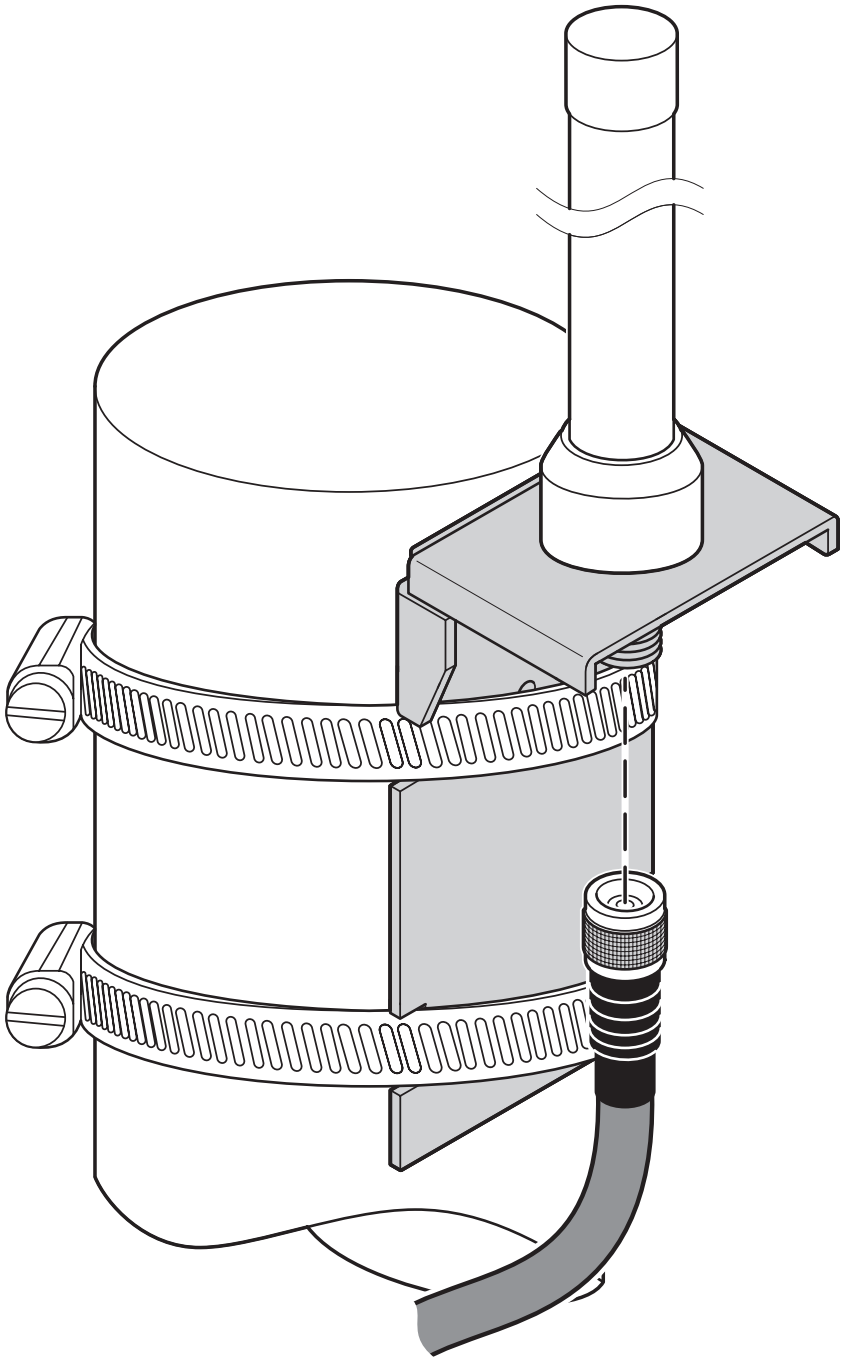
Panel mounting

Schematic diagram



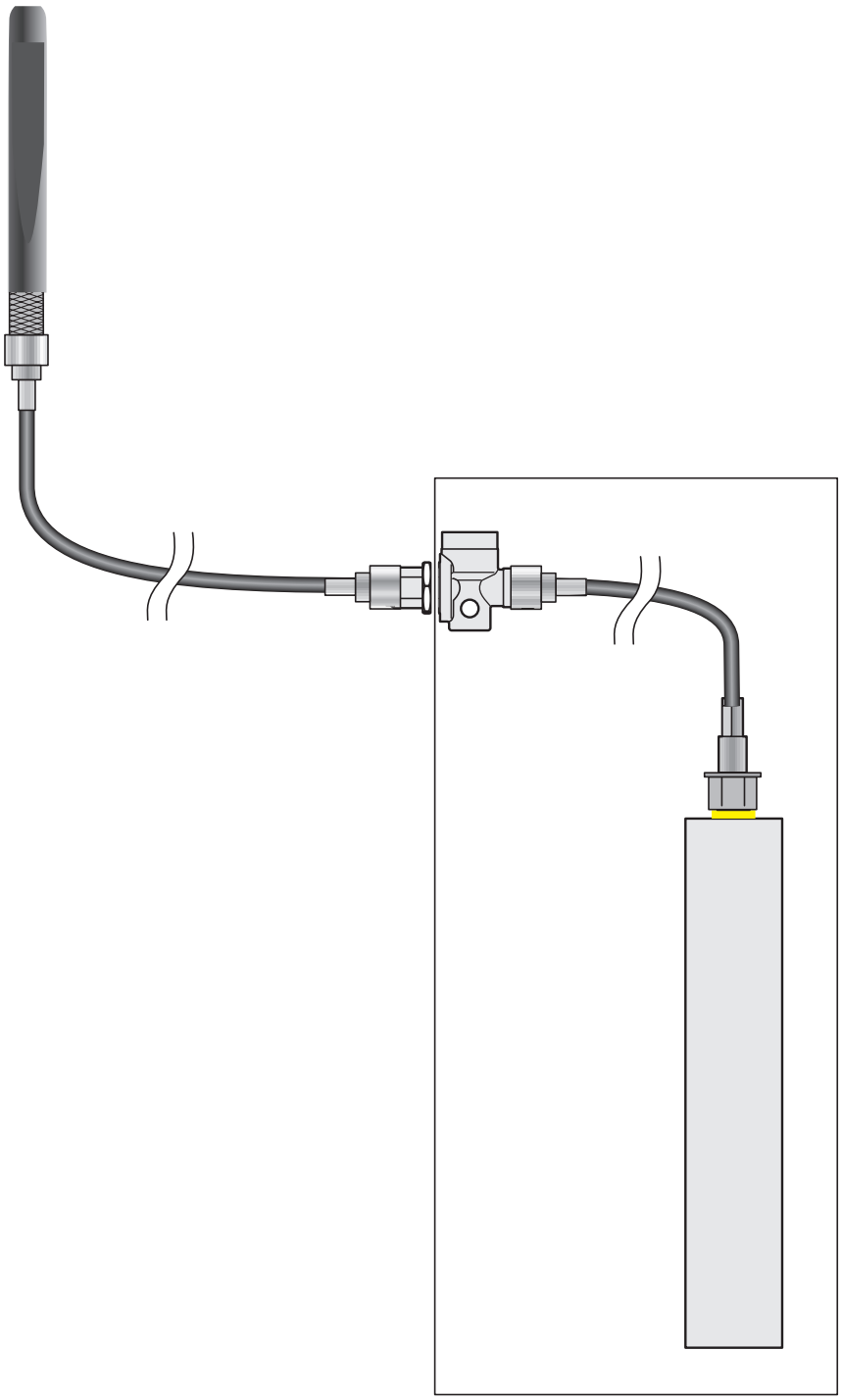
Panel mounting

Schematic diagram



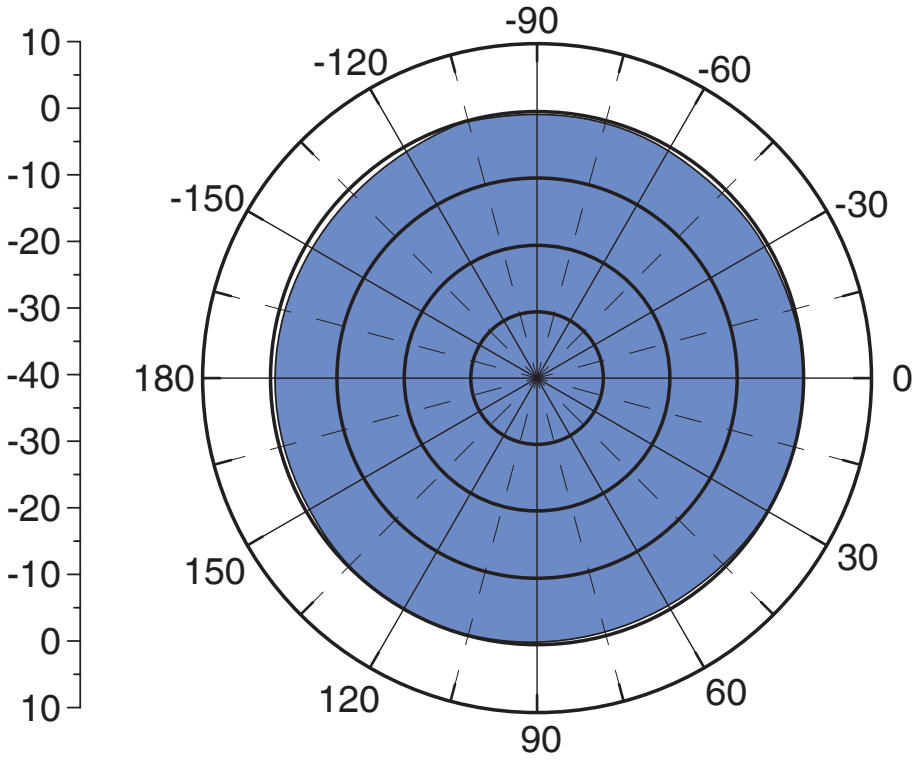
Mast mounting

Schematic diagram



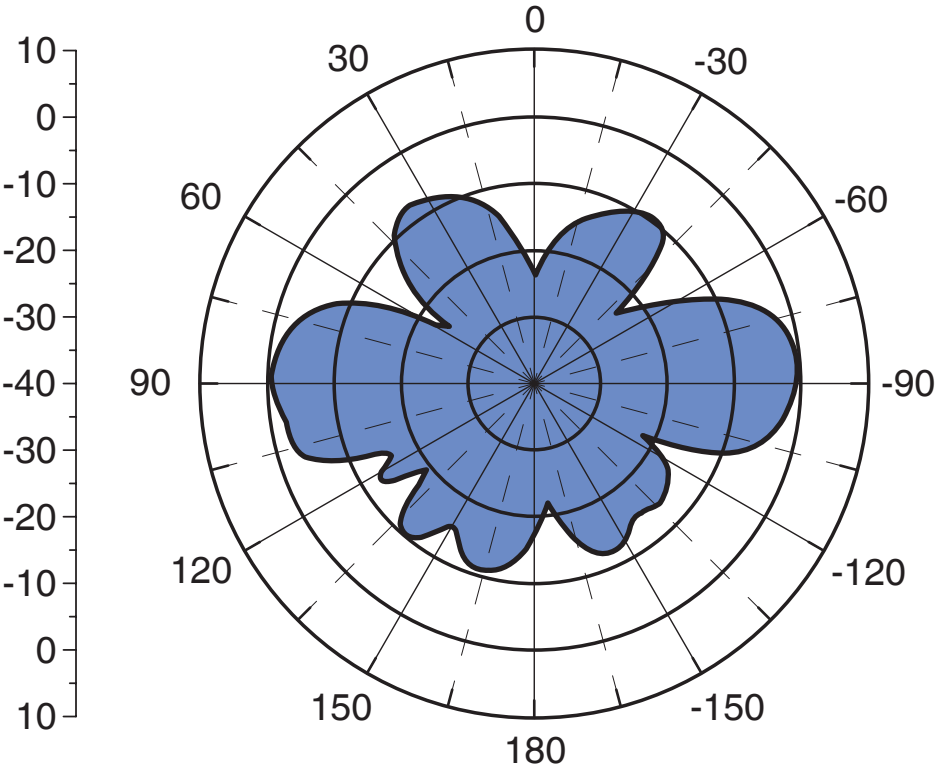
Installation example

Diagram



Horizontal

Diagram



Vertical

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: IBExU14ATEX1116 X

Classifications

ECLASS

ECLASS-13.0	19070105
ECLASS-15.0	19070105

ETIM

ETIM 10.0	EC001698

UNSPSC

UNSPSC 21.0	43223100

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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