

ANT-OMNI-5900-01 - Antenna



2701347

<https://www.phoenixcontact.com/us/products/2701347>

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Omnidirectional antenna for wall or mast mounting, 5 GHz, gain: 5 dBi, degree of protection: IP64, saltwater-resistant, shock- and vibration-resistant, connection: N (female), incl. mounting bracket and mast clamps



Your advantages

- Ideally suited for stationary 5 GHz applications
- Resistant to salt water

Commercial data

Item number	2701347
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNN2Z1
GTIN	4046356739399
Weight per piece (including packing)	270.9 g
Weight per piece (excluding packing)	270 g
Customs tariff number	85177100
Country of origin	PL

Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Antenna
Scope of supply	included mounting bracket and mast clamps
Radiation characteristics	Omnidirectional
Gain	5 dBi
Vertical beamwidth	25 °
Horizontal beamwidth	360 °
Polarization	Linear vertical

Electrical properties

Frequency band	5 GHz
Frequency range	5.15 GHz ... 5.83 GHz
Impedance	50 Ω
Maximum capacity	6.00 W
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 1.70

Connection data

Connection technology

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

Dimensions

Height	130 mm
Diameter	16 mm

External dimensions

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

Material	Fiberglass-reinforced plastic
	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	IP64
Ambient temperature (operation)	-45 °C ... 70 °C
Ambient temperature (storage/transport)	-45 °C ... 70 °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

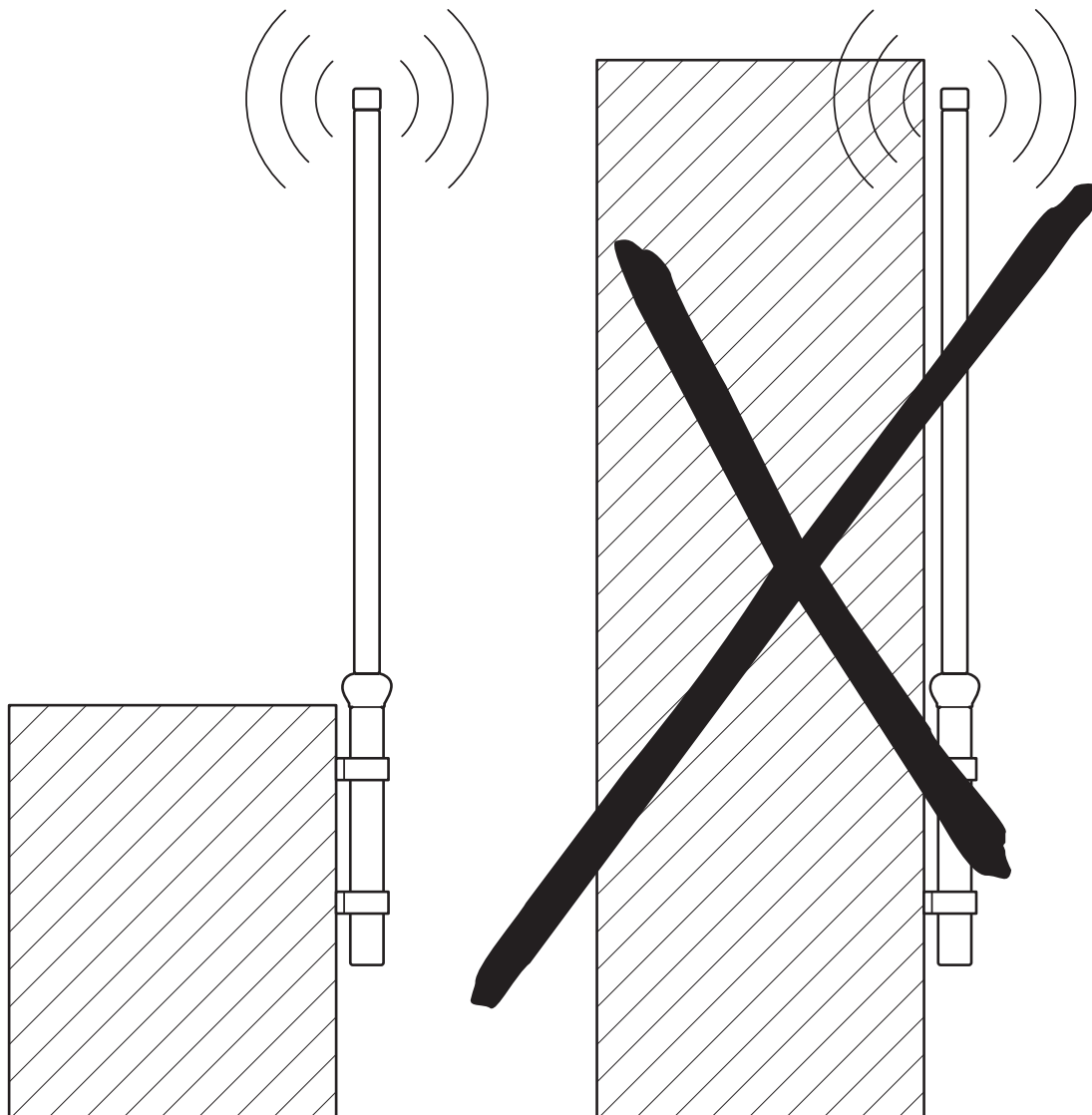
Other resistance	salt water resistant
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Mounting

Mounting type	Panel mounting
	Mast mounting
Assembly note	Outdoors and indoors

Drawings

Schematic diagram



Mounting

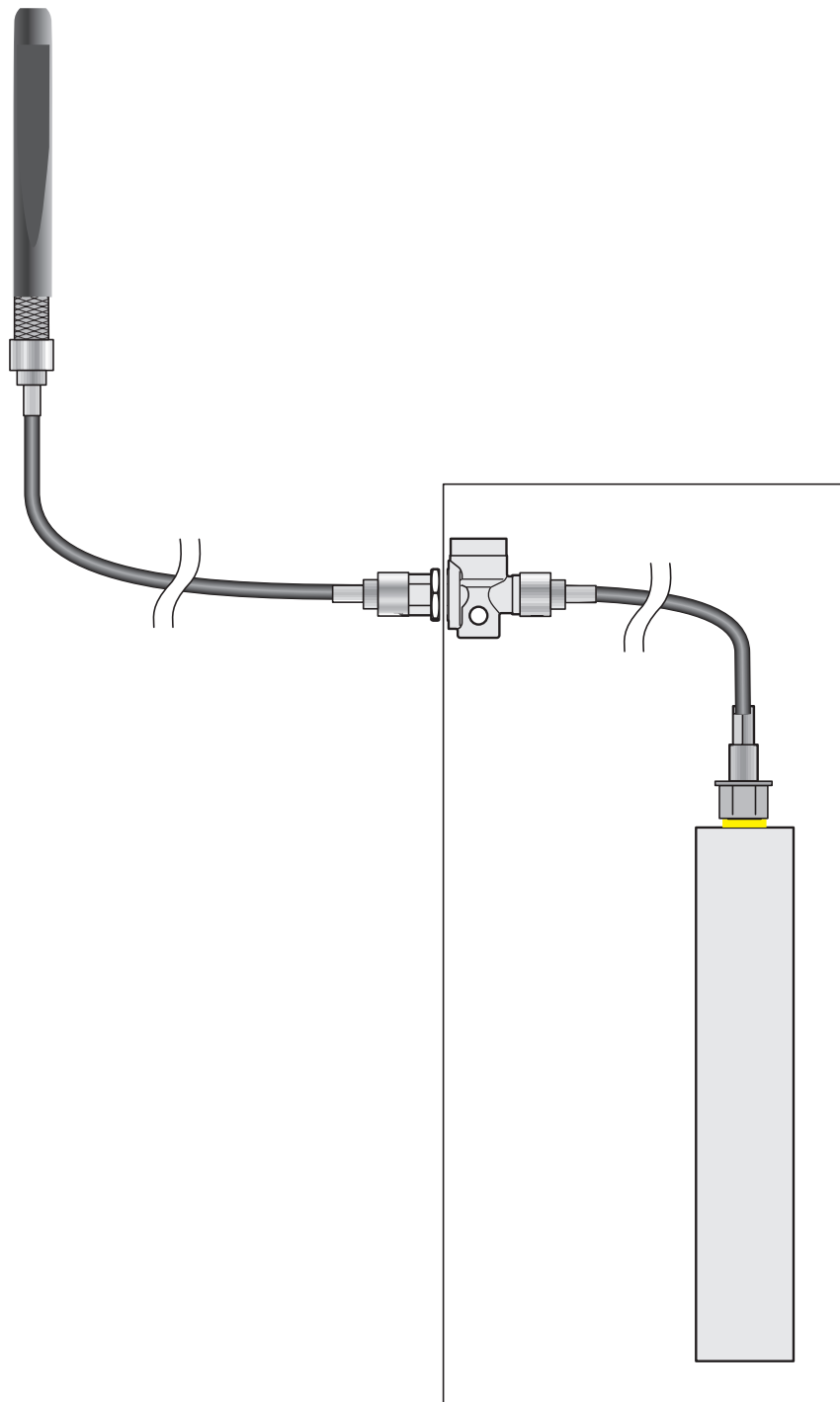
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Schematic diagram



Installation example (antenna cable and surge protection available as accessories)

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Classifications

ECLASS

ECLASS-13.0	19070105
ECLASS-15.0	19070105

ETIM

ETIM 9.0	EC001698
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UNSPSC

UNSPSC 21.0	43223100
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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.)	No substance above 0.1 wt%