

ANT-OMNI-868-01 - Antenna

2702136

<https://www.phoenixcontact.com/us/products/2702136>

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Omnidirectional antenna for wall or mast mounting, 868 MHz, gain: 4 dBi, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval

Your advantages

- Ideally suited for stationary 868 MHz applications
- For use in potentially explosive areas
- Resistant to salt water

Commercial data

Item number	2702136
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN99
Product key	DNC6A2
GTIN	4046356995863
Weight per piece (including packing)	497 g
Weight per piece (excluding packing)	482 g
Customs tariff number	85177100
Country of origin	TW

Technical data

Notes

Note on application

Note on application	Only for industrial use
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Utilization restriction

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

Product type	Antenna
Scope of supply	included mounting bracket and mast clamps
Radiation characteristics	Omnidirectional
Gain	4 dBi
Vertical beamwidth	30 °
Horizontal beamwidth	360 °
Polarization	Linear vertical

Electrical properties

Frequency band	868 MHz
Frequency range	868 MHz ... 870 MHz
Impedance	50 Ω
Maximum capacity	15.00 W
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 2.00

Connection data

Connection technology

Connection method	N (female)
Outside diameter	30 mm ... 45 mm (Mast)

Ex data

Safety data

Input voltage U_i	max. 30 V
Input current I_i	max. 600 mA
Input power P_i	0.79 W (Maximum HF input power, 29 dBm, group IIC)
	1.38 W (Maximum HF input power, 31.4 dBm, group IIB)
	2.34 W (Maximum HF input power, 33.7 dBm, group IIA)
Max. internal inductance L_i	negligible
Max. internal capacitance C_i	negligible

Dimensions

Height	620 mm
Diameter	24 mm

ANT-OMNI-868-01 - Antenna



2702136

<https://www.phoenixcontact.com/us/products/2702136>

External dimensions

Outside diameter	30 mm ... 45 mm (Mast)
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Material specifications

Color	gray (RAL 7042)
	gray white (RAL 9002)
Material (Radom)	PC (glass-fiber reinforced)
Material (Holder)	PC (glass-fiber reinforced)
Material (U-bolt)	Stainless steel V2A

Cable/line

Other resistance	salt water resistant
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Air pressure (operation)	80 kPa ... 110 kPa

Approvals

CE

Certificate	CE-compliant
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ATEX

Identification	⊕ 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

Standards and regulations

Other resistance	salt water resistant
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Explosive atmospheres

Standard designation	Ex areas, essential requirements
Standards/specifications	EN 60079-0

Explosive atmospheres

Standard designation	Ex areas, intrinsic safety
Standards/specifications	EN 60079-11

ANT-OMNI-868-01 - Antenna



2702136

<https://www.phoenixcontact.com/us/products/2702136>

Mounting

Mounting type	Panel mounting
	Mast mounting
Assembly note	Outdoors and indoors

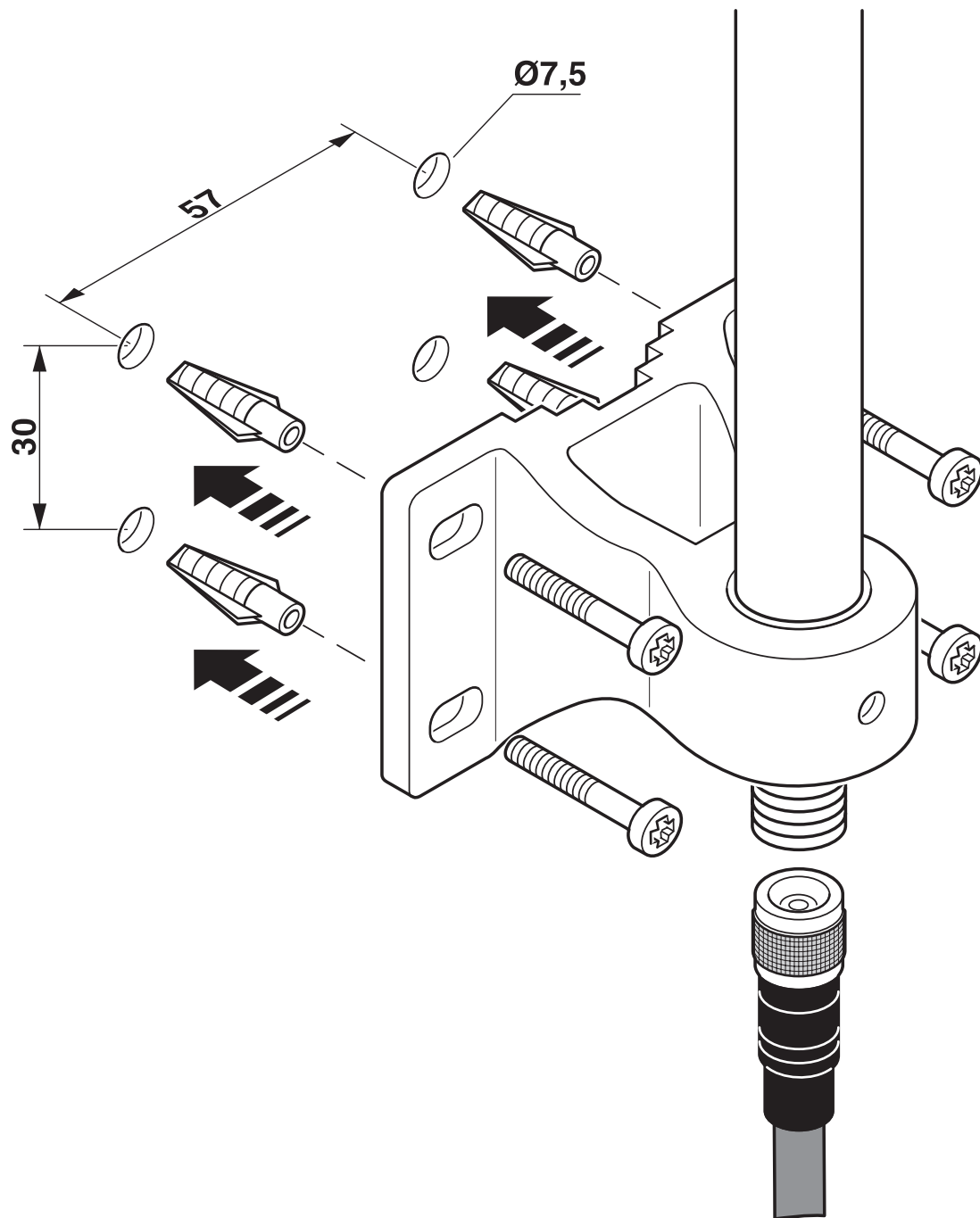
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2702136

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Drawings

Schematic diagram



Panel mounting

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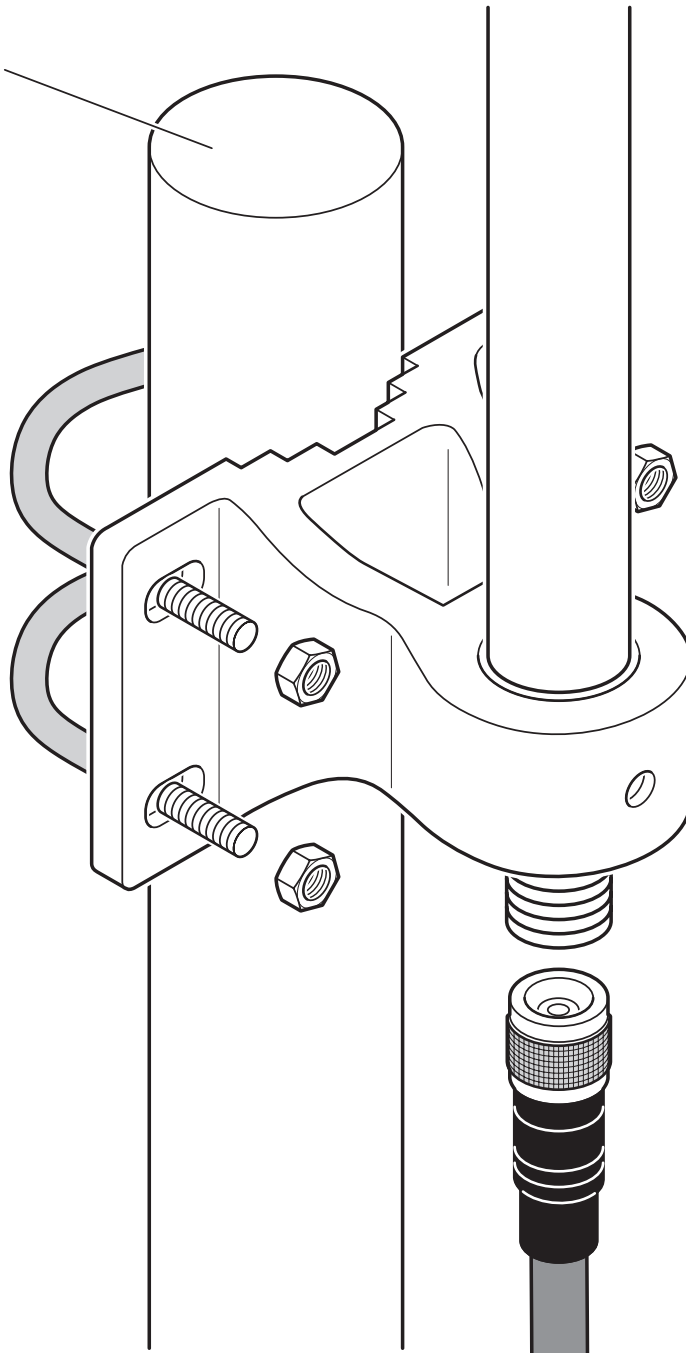
2702136

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Schematic diagram

Ø30 - 45



Mast mounting

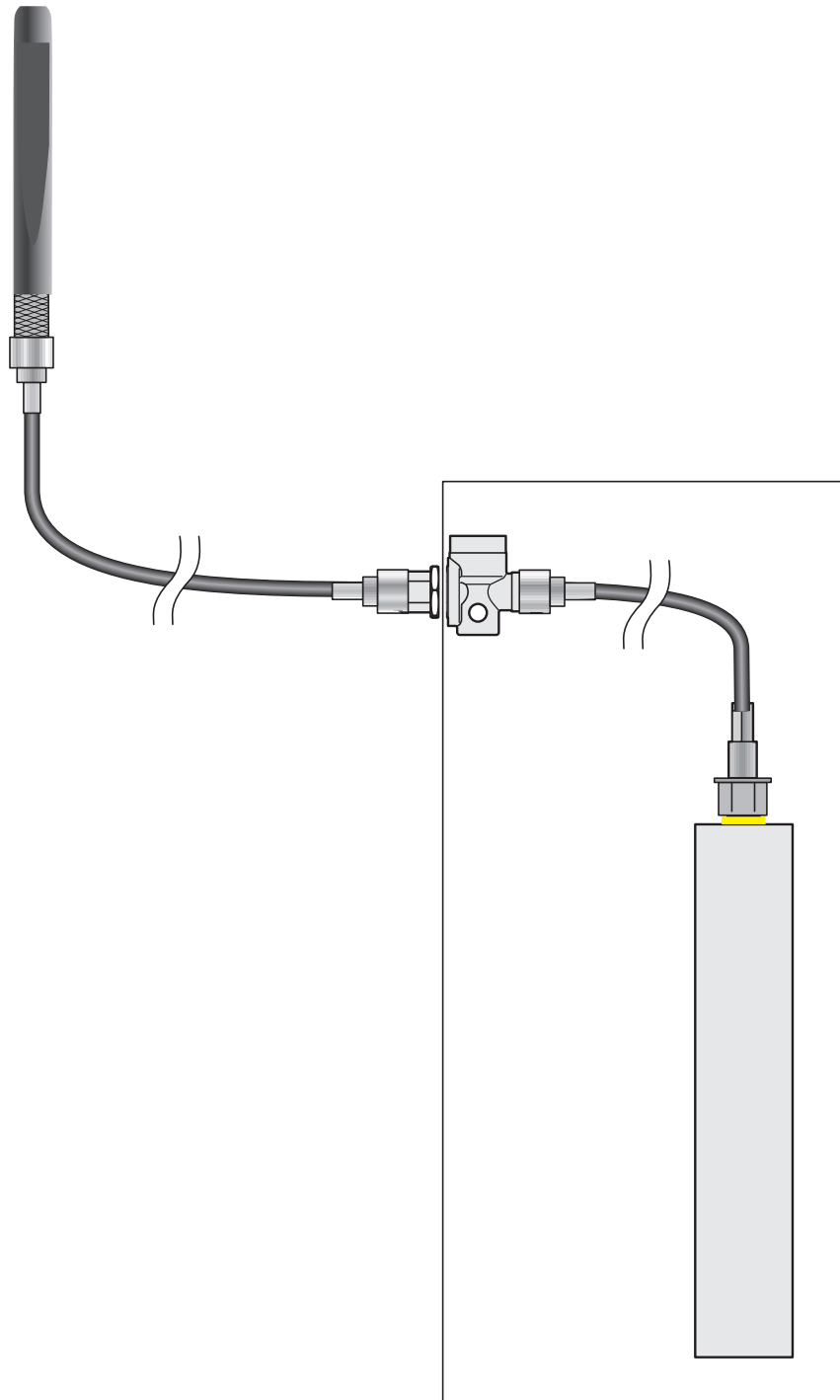
ANT-OMNI-868-01 - Antenna

2702136

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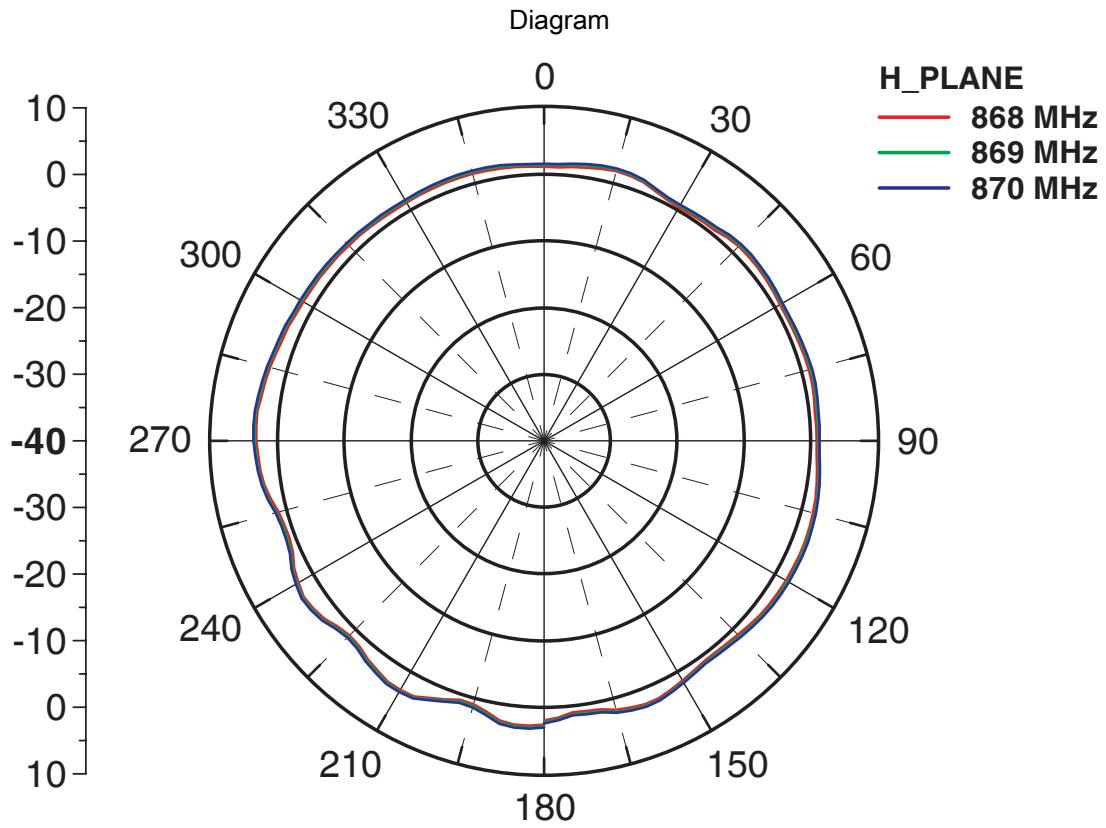
Schematic diagram



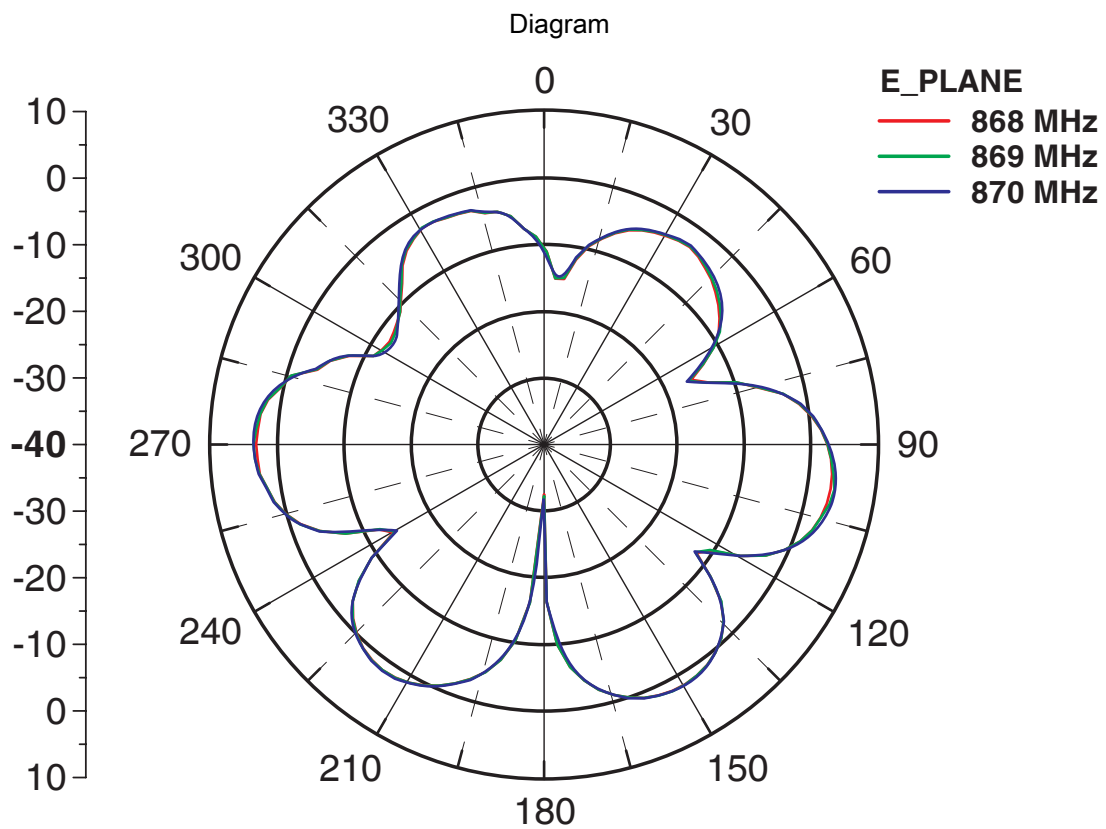
Installation example (antenna cable and surge protection available as accessories)

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Horizontal



Vertical

ANT-OMNI-868-01 - Antenna



2702136

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702136>



IECEx

Approval ID: IECEx IBE 14.0039X



ATEX

Approval ID: IBExU14ATEX1116 X

ANT-OMNI-868-01 - Antenna



2702136

<https://www.phoenixcontact.com/us/products/2702136>

Classifications

ECLASS

ECLASS-13.0	19070105
ECLASS-15.0	19070105

ETIM

ETIM 10.0	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
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	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)
SCIP	960ecf91-e715-450a-9d9d-c76a8be12acc

EF3.1 Climate Change

CO2e kg	4.9 kg CO2e
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