

ANT-DIR-868-01 - Antenna



2702137

<https://www.phoenixcontact.com/us/products/2702137>

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Directional antenna for mast or panel mounting, frequency band: 868 MHz, gain: 3.5 dBi, circular polarized, degree of protection: IP67, shockproof: IK06, seawater-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval



Your advantages

- Ideally suited for stationary or linear mobile 868 MHz applications
- For applications in reflective environments
- For use in potentially explosive areas
- Resistant to salt water

Commercial data

Item number	2702137
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNC6A2
GTIN	4055626006512
Weight per piece (including packing)	519.2 g
Weight per piece (excluding packing)	519.2 g
Country of origin	PL

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	Directional
Gain	3.5 dBi
Vertical beamwidth	90 °
Horizontal beamwidth	135 °
Polarization	Circular clockwise

Electrical properties

Frequency band	868 MHz
Frequency range	868 MHz ... 870 MHz
Impedance	50 Ω
Maximum capacity	10.00 W
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 2.00

Connection data

Connection technology

Connection method	N (female)
Outside diameter	25 mm ... 85 mm (Mast)

Ex data

Safety data

Input voltage U_i	30 V
Input current I_i	600 mA
Max. internal inductance L_i	negligible
Capacitance C_i	negligible

Dimensions

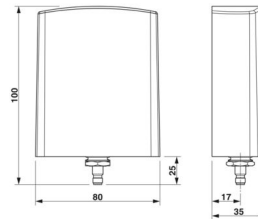
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Dimensional drawing



Width	80 mm
Height	100 mm
Length	35 mm

External dimensions

Outside diameter	25 mm ... 85 mm (Mast)
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Material specifications

Material (Radom)	Lexan EXL 9330
Material (Holder)	Stainless steel V2A
Material (Mast clamp)	Stainless steel V2A
Flammability rating according to UL 94	V0

Cable/line

Other resistance	salt water resistant
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Impact strength	IK06
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Wind velocity	220 km/h

Approvals

CE

Certificate	CE-compliant
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ATEX

Identification	Ex 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)	In accordance with EN 50125-3, positioning profile: "away from the rails"
Vibration (operation)	In accordance with EN 50125-3, positioning profile: "away from the rails"

Standards and regulations

Other resistance	salt water resistant
Standards/specifications	EN 60079-0
	EN 60079-11
	EN 60079-26
Note	Explosion protection
Standards/specifications	EN 50155
Note	Railway application
Standards/specifications	EN 45545-2
	NFPA 130
	BS 6853
Note	Fire protection on railway vehicles

Mounting

Mounting type	Panel mounting
	Mast mounting
Assembly note	Outdoors and indoors

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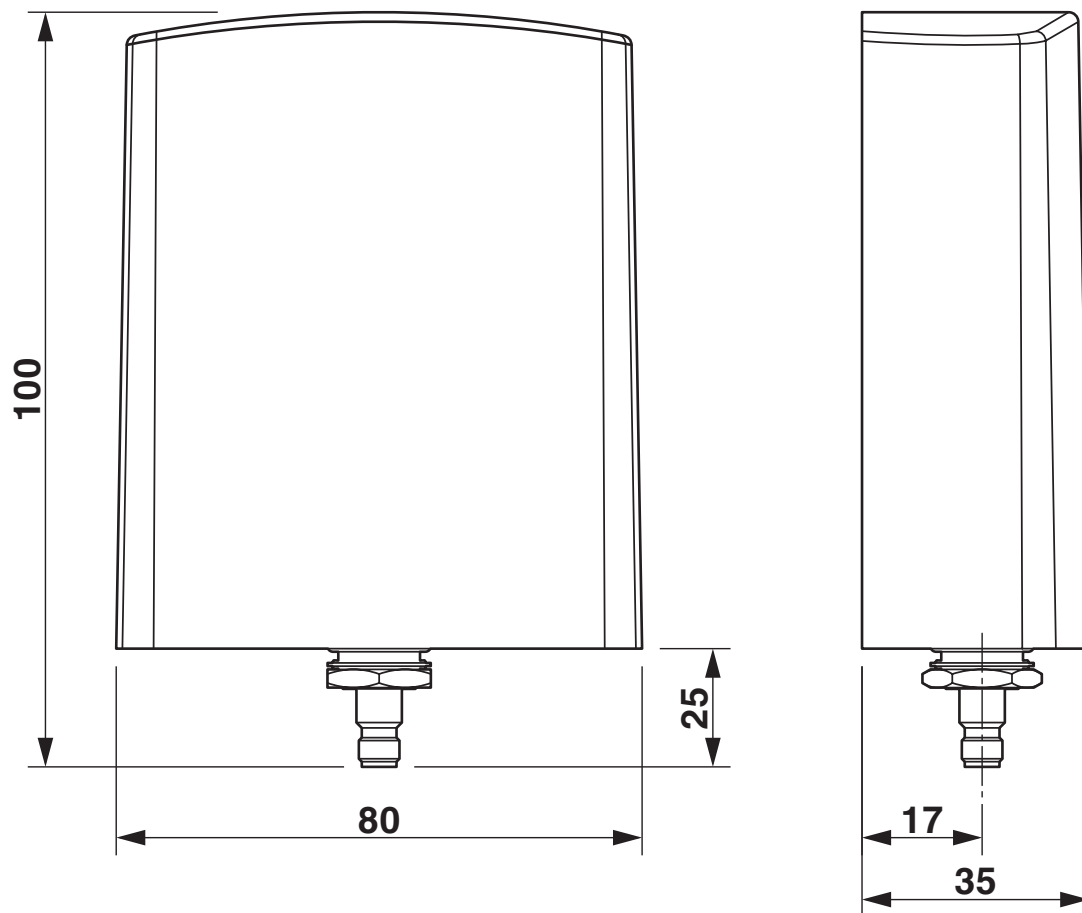
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Drawings

Dimensional drawing



Housing dimensions

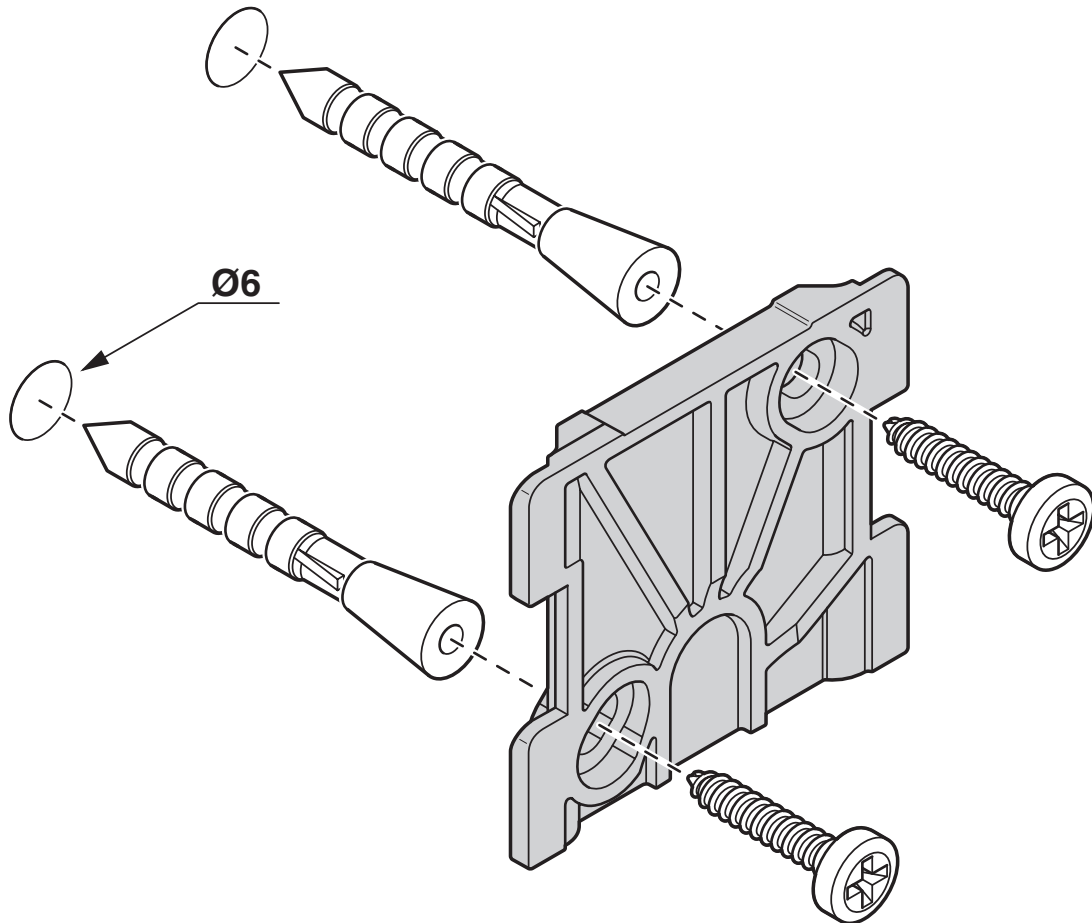
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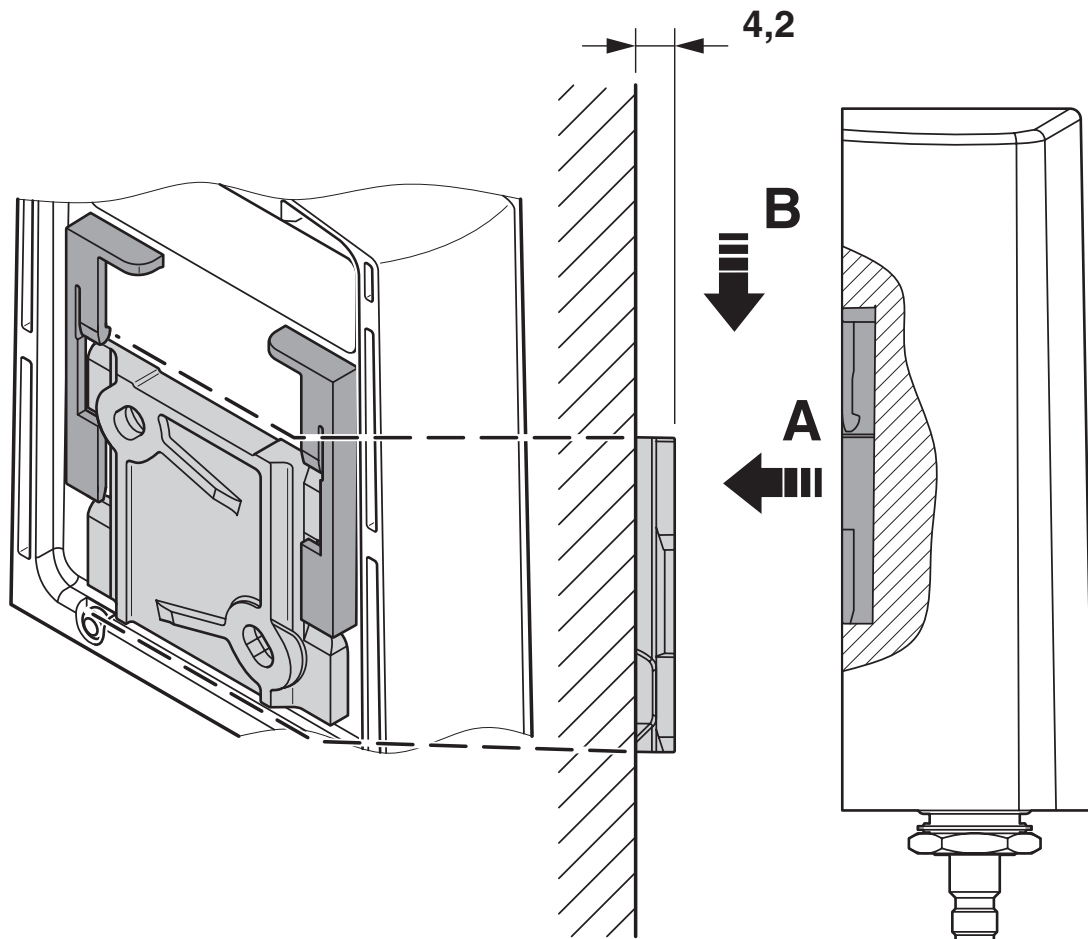


Schematic diagram



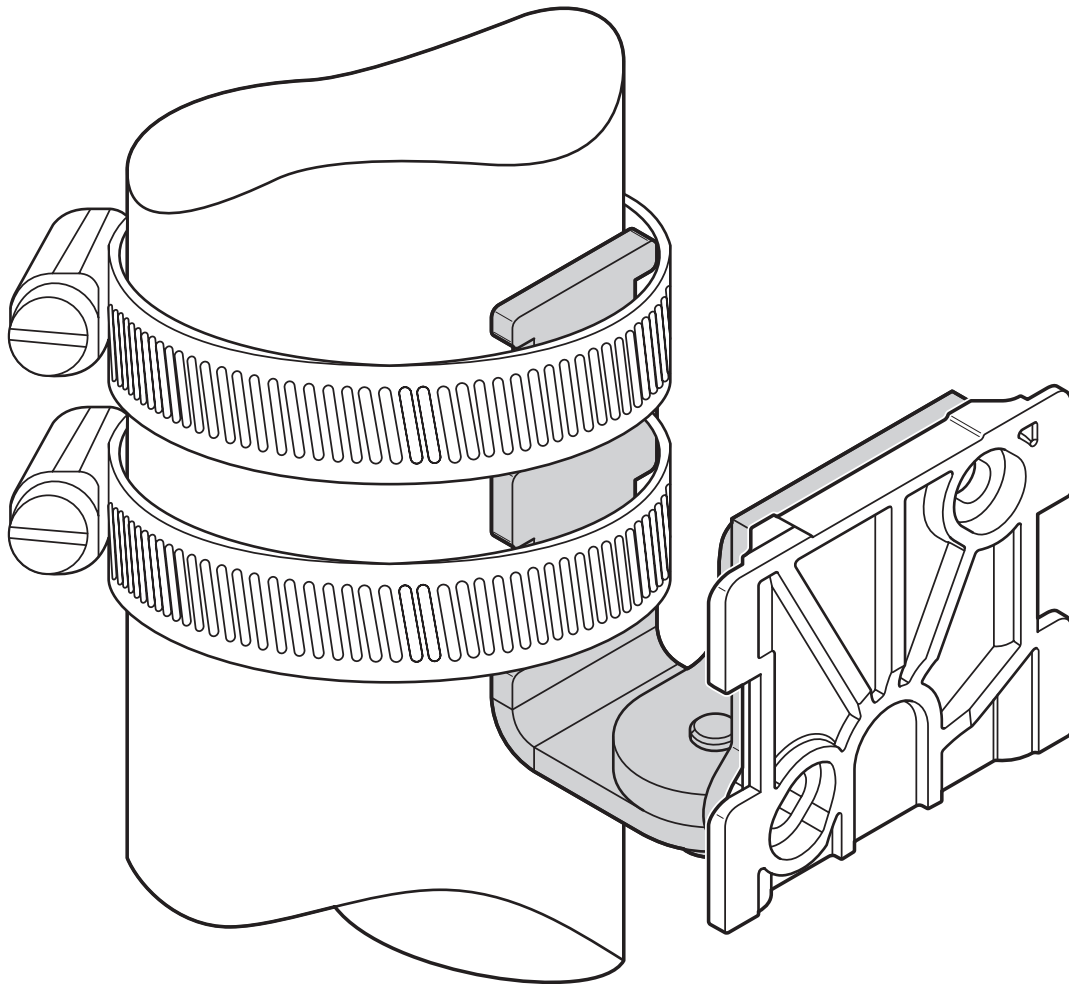
Mounting panel

Schematic diagram



Panel mounting

Schematic diagram



Mast mounting

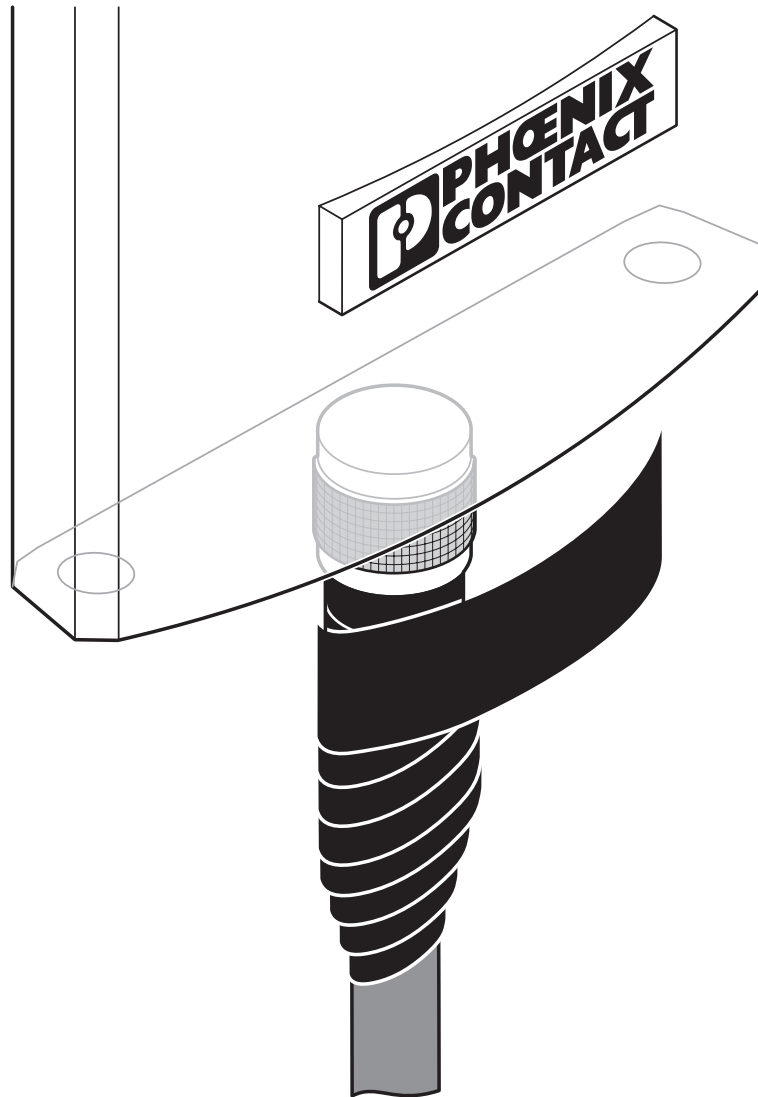
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Schematic diagram



Sealing tape available as an accessory

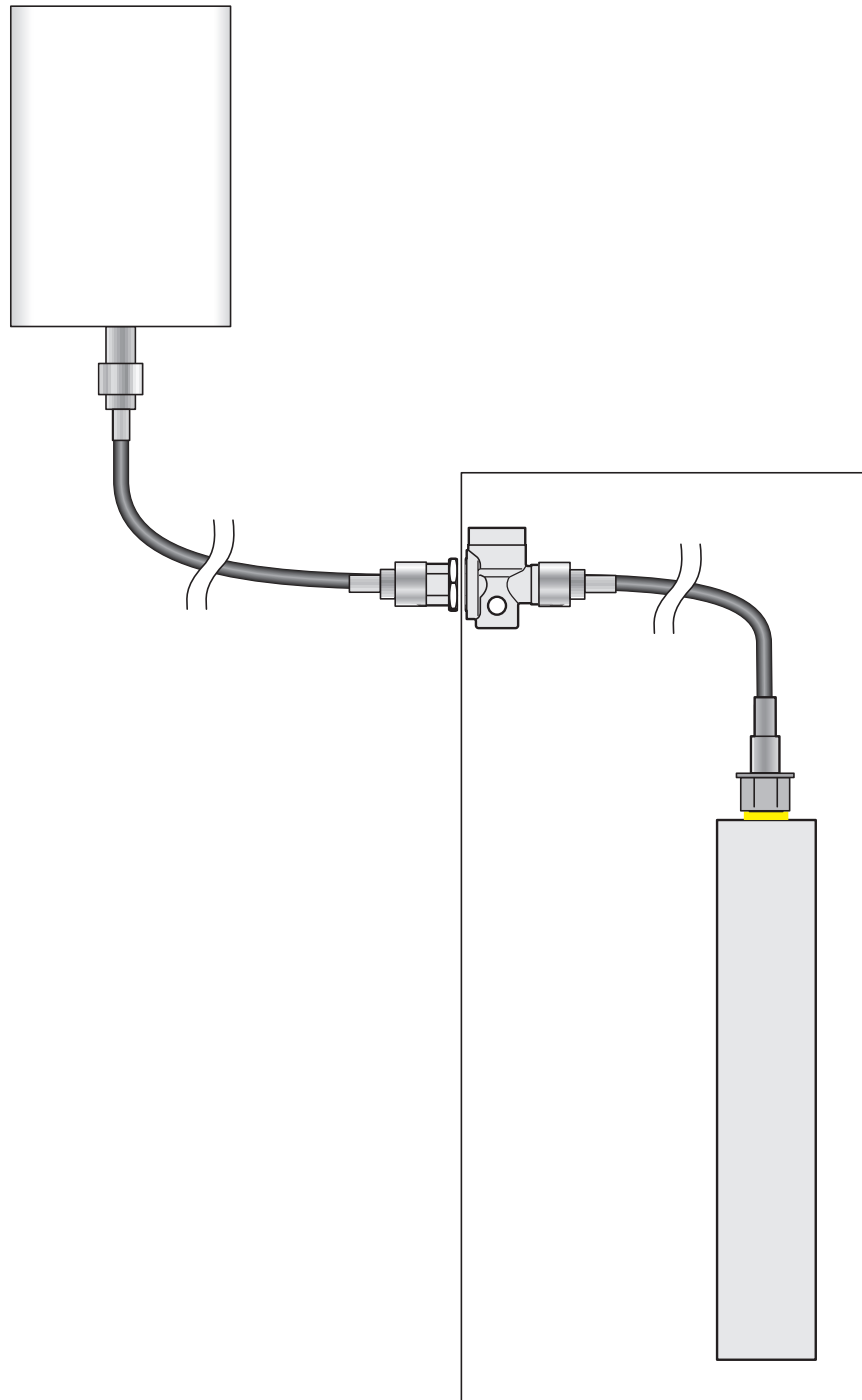
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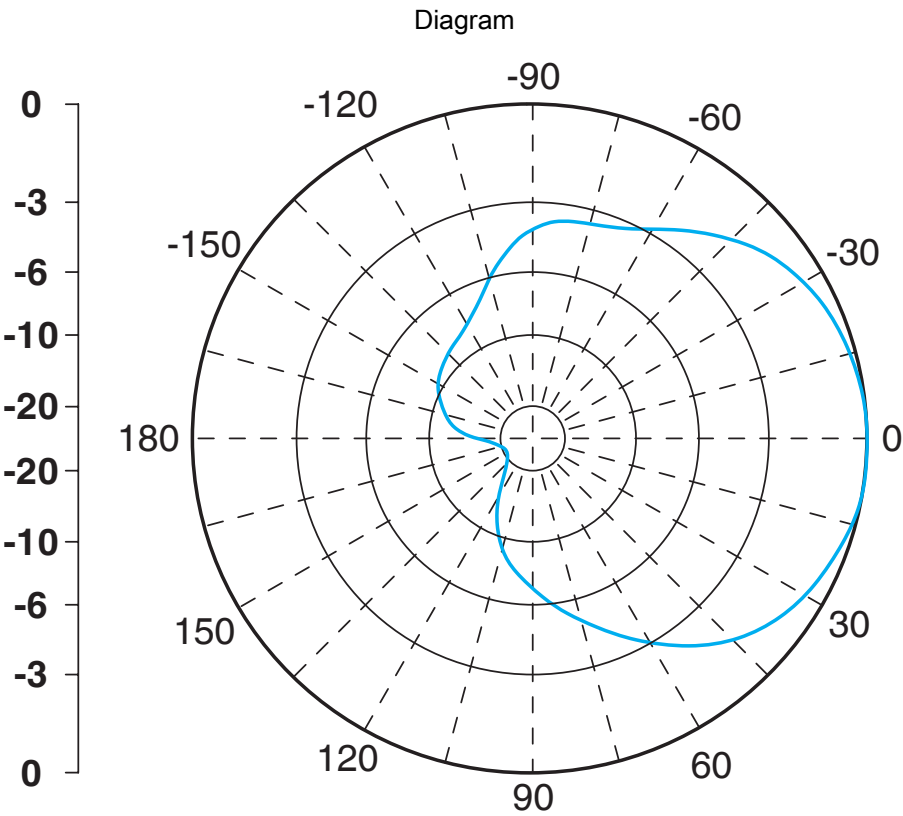
Schematic diagram



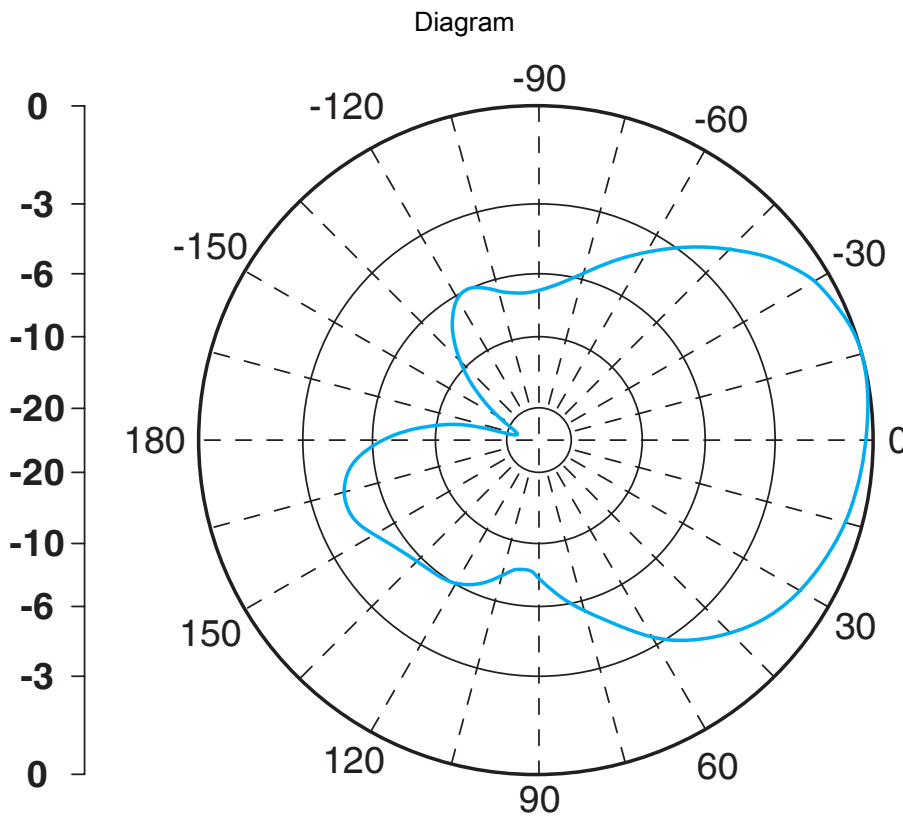
Installation example

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Horizontal



Vertical

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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
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)
SCIP	93e5b86f-e1d4-44c9-a447-32f8cfaa62e1