

# RAD-ISM-2400-ANT-OMNI-2-1-RSMA - Antenna



2701362

<https://www.phoenixcontact.com/us/products/2701362>

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Omnidirectional antenna for panel mounting, frequency band: 2.4 GHz, gain: 2 dBi, degree of protection: IP65, connection: RSMA (male), incl. 1.5 m connecting cable, mounting bracket, and mounting material

## Your advantages

- Ideally suited for freely mobile or stationary 2.4 GHz applications
- Including 1.5 m connecting cable

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2701362       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN23          |
| Product key                          | DNN2Z1        |
| GTIN                                 | 4046356743471 |
| Weight per piece (including packing) | 96 g          |
| Weight per piece (excluding packing) | 70 g          |
| Customs tariff number                | 85177100      |
| Country of origin                    | TW            |

## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Product properties

|                           |                 |
|---------------------------|-----------------|
| Product type              | Antenna         |
| Radiation characteristics | Omnidirectional |
| Gain                      | 2 dBi           |
| Vertical beamwidth        | 75 °            |
| 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                                  | 1.00 W              |
| Voltage standing wave ratio VSWR in a 50 Ω system | ≤ 2.00              |

### Connection data

#### Connection technology

|                   |             |
|-------------------|-------------|
| Connection method | RSMA (male) |
|-------------------|-------------|

### Dimensions

|          |         |
|----------|---------|
| Height   | 82.5 mm |
| Diameter | 7.8 mm  |

### Material specifications

|                         |                                      |
|-------------------------|--------------------------------------|
| Color                   | black (RAL 9005)                     |
| Material (Radom)        | Polyurethane                         |
| Material (Antenna base) | Polycarbonate                        |
| Material (Holder)       | Stainless steel V2A                  |
| Outer sheath, material  | Fluorinated ethylene propylene (FEP) |

### Cable/line

|                                             |                                      |
|---------------------------------------------|--------------------------------------|
| Cable length                                | 1.50 m                               |
| Connecting cable                            | yes                                  |
| External cable diameter                     | 2.50 mm                              |
| Outer sheath, material                      | Fluorinated ethylene propylene (FEP) |
| Smallest bending radius, fixed installation | 25.4 mm                              |

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## Environmental and real-life conditions

### Ambient conditions

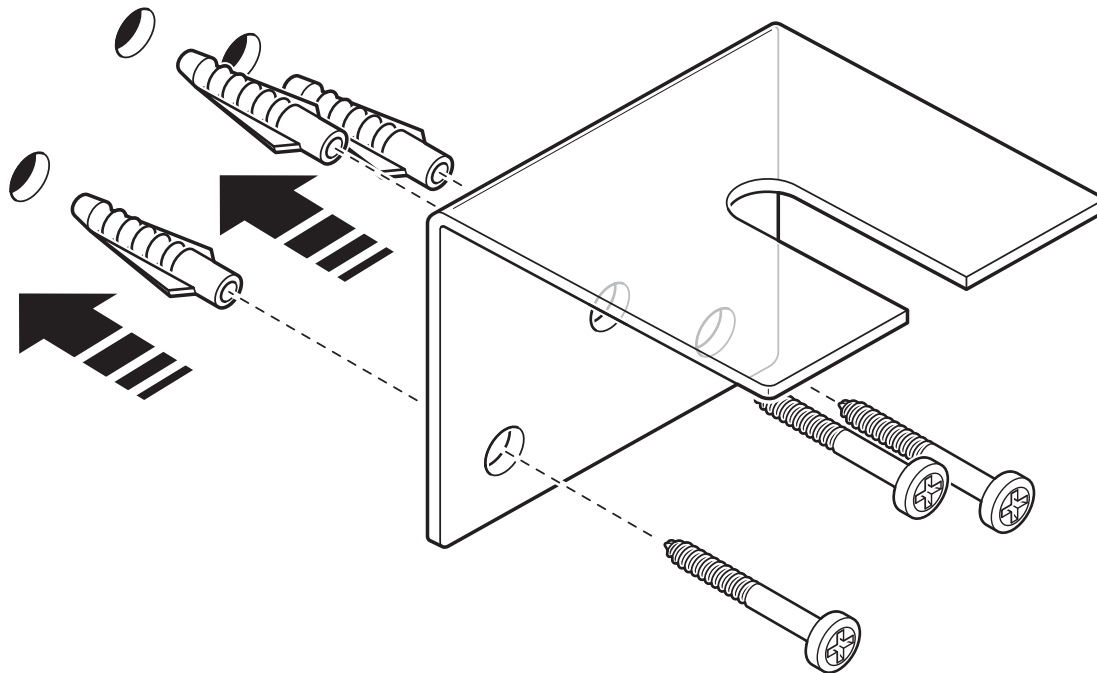
|                                         |                  |
|-----------------------------------------|------------------|
| Degree of protection                    | IP65             |
| Ambient temperature (operation)         | -20 °C ... 65 °C |
| Ambient temperature (storage/transport) | -30 °C ... 75 °C |

## Mounting

|               |                      |
|---------------|----------------------|
| Mounting type | Panel mounting       |
| Assembly note | Outdoors and indoors |

## Drawings

Schematic diagram



Panel mounting

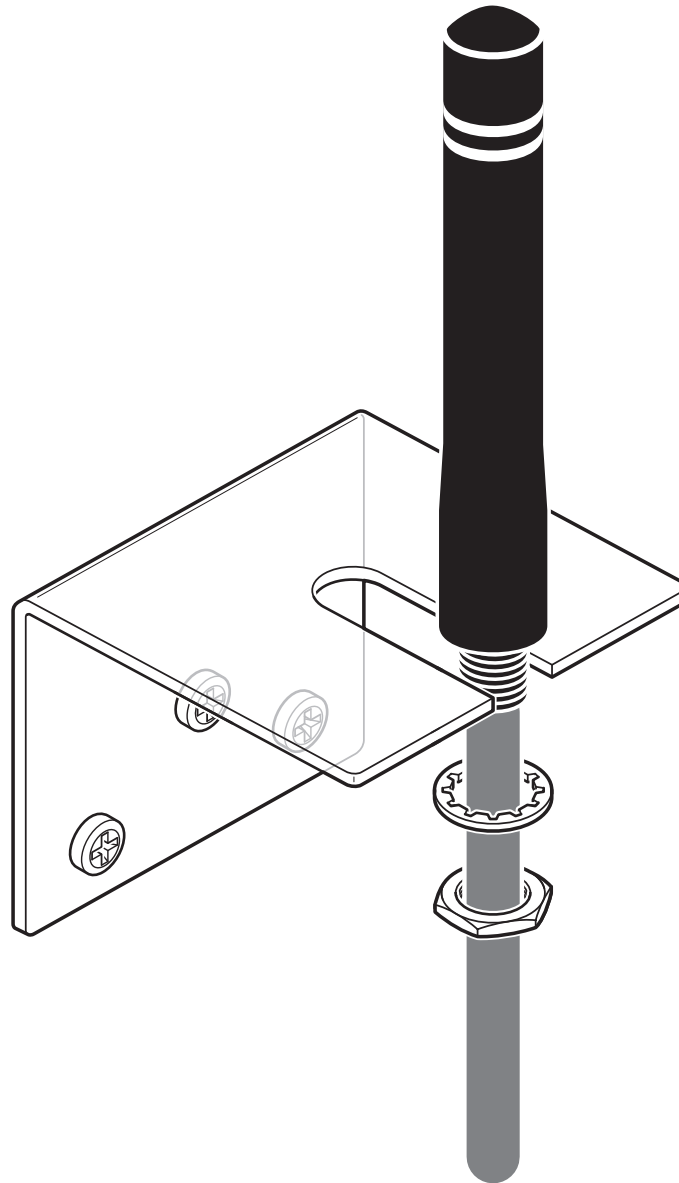
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Schematic diagram

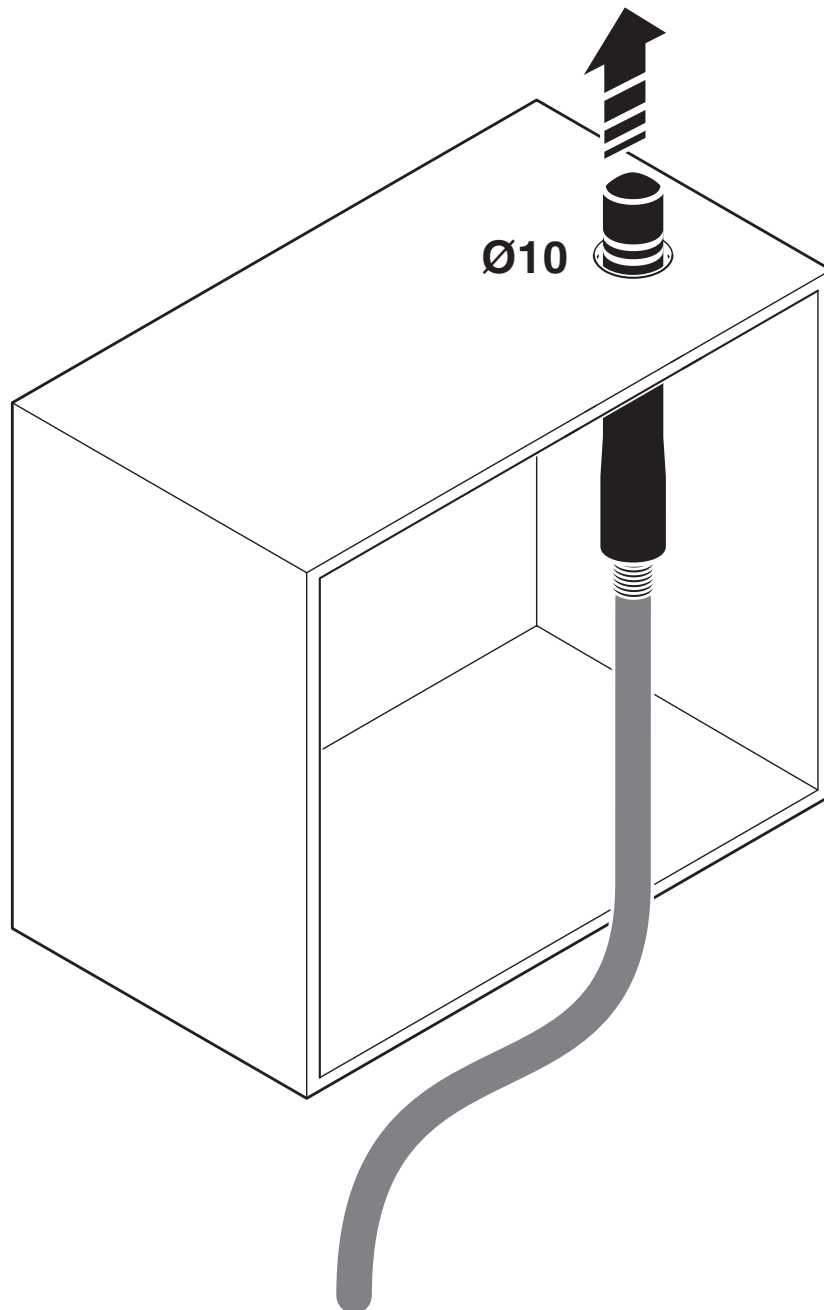


Panel mounting

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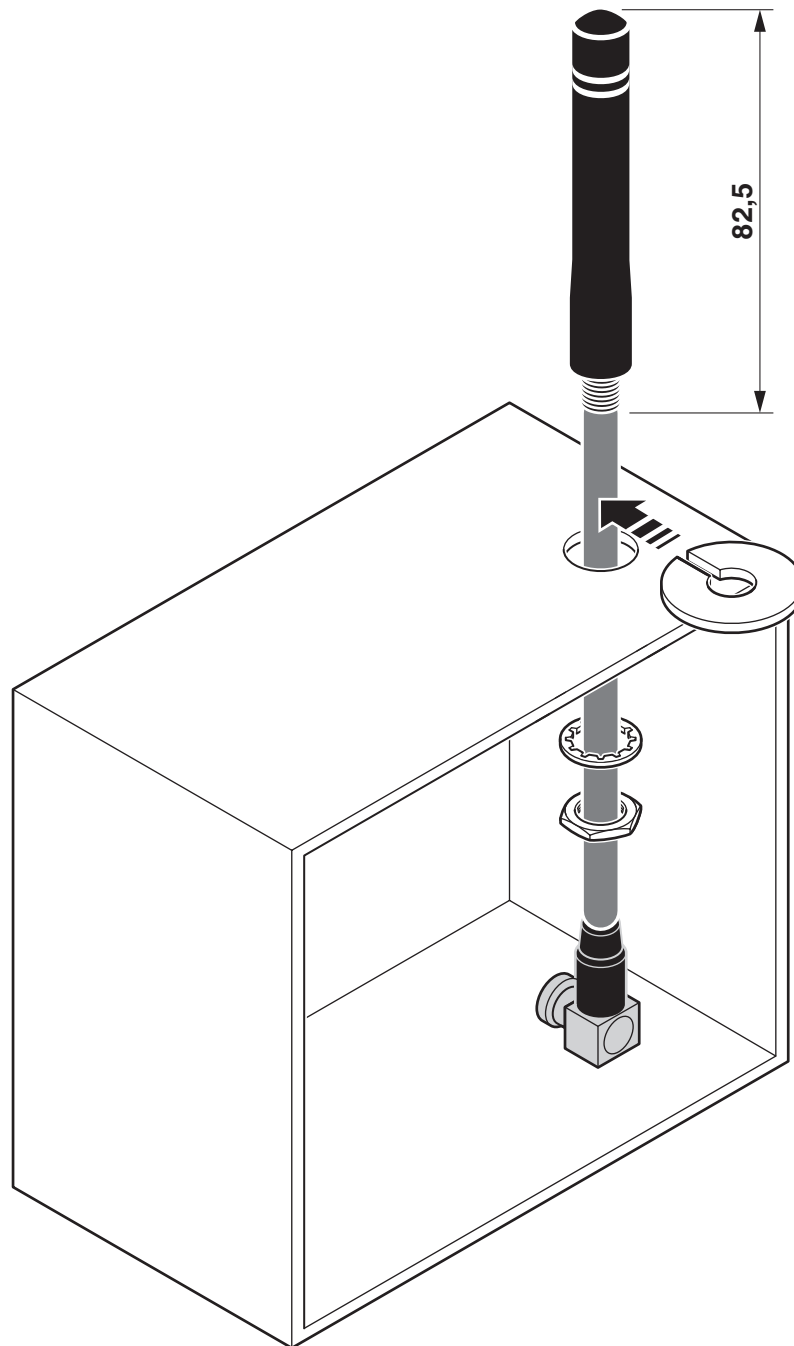
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Schematic diagram



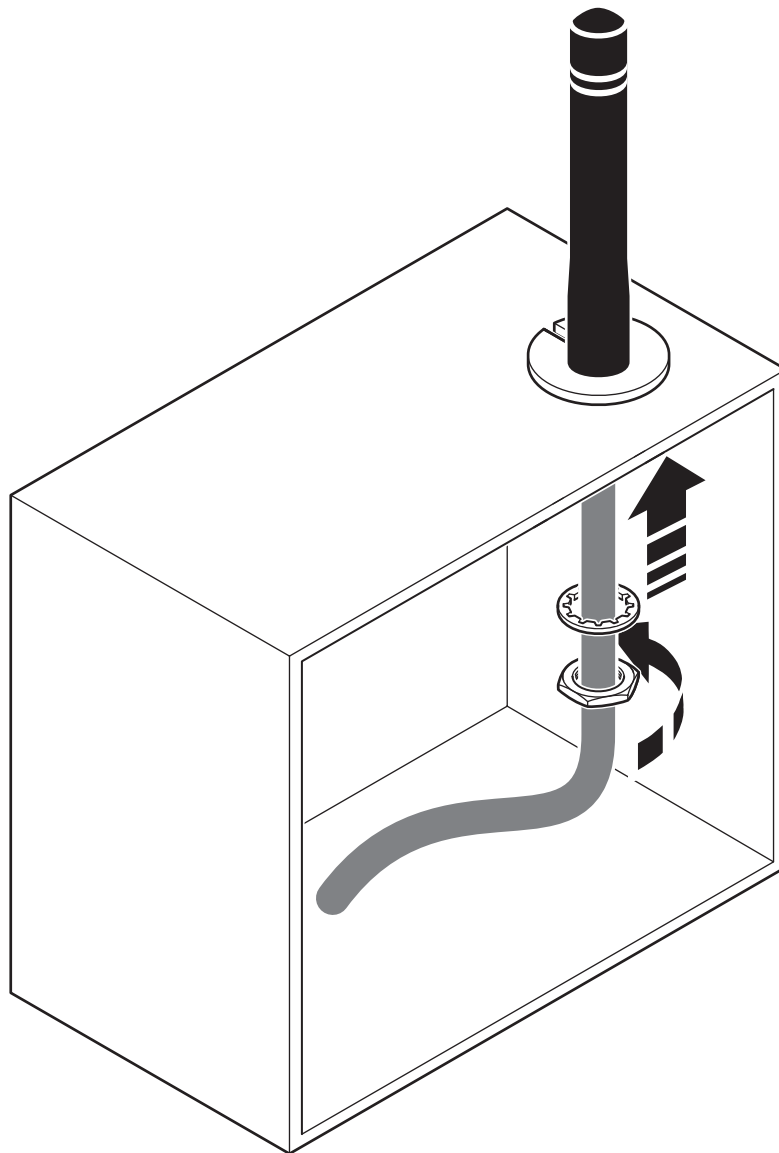
Control cabinet feed-through

Schematic diagram



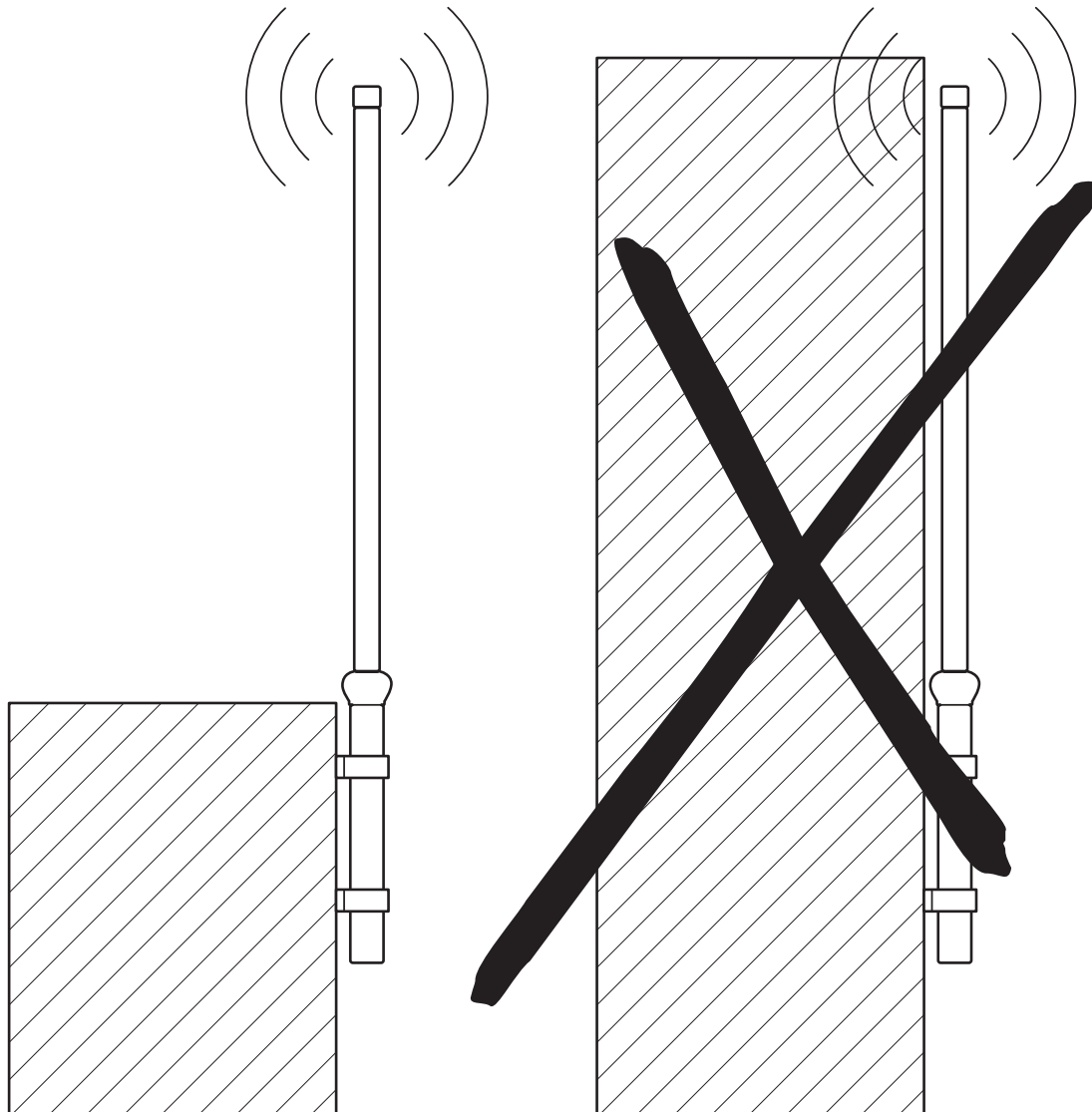
Mounting on the control cabinet

Schematic diagram



Mounting on the control cabinet

Schematic diagram



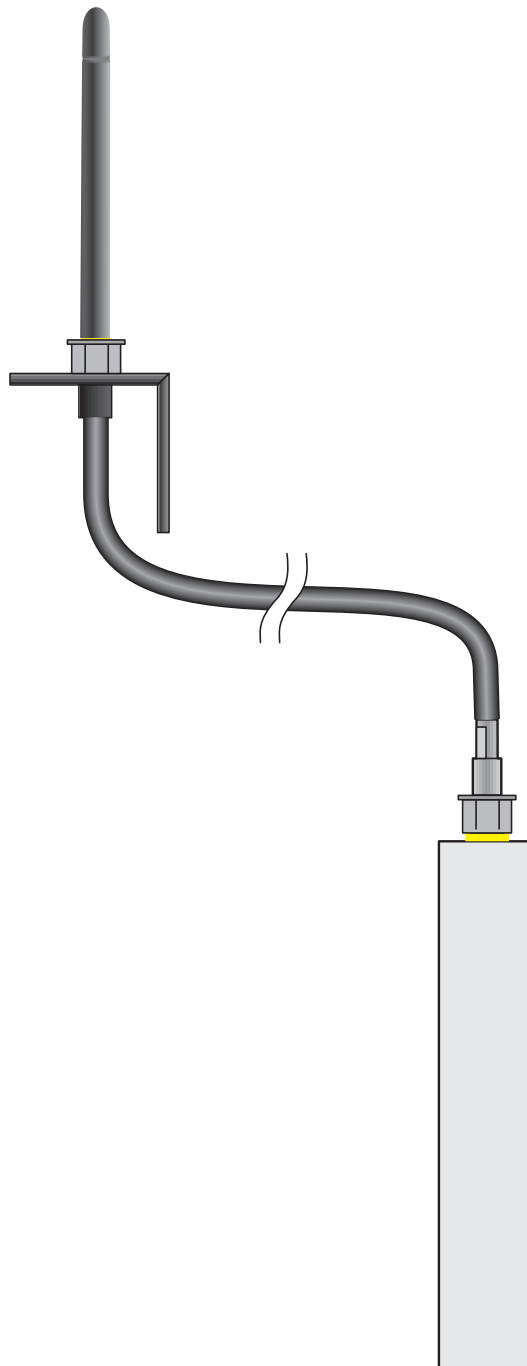
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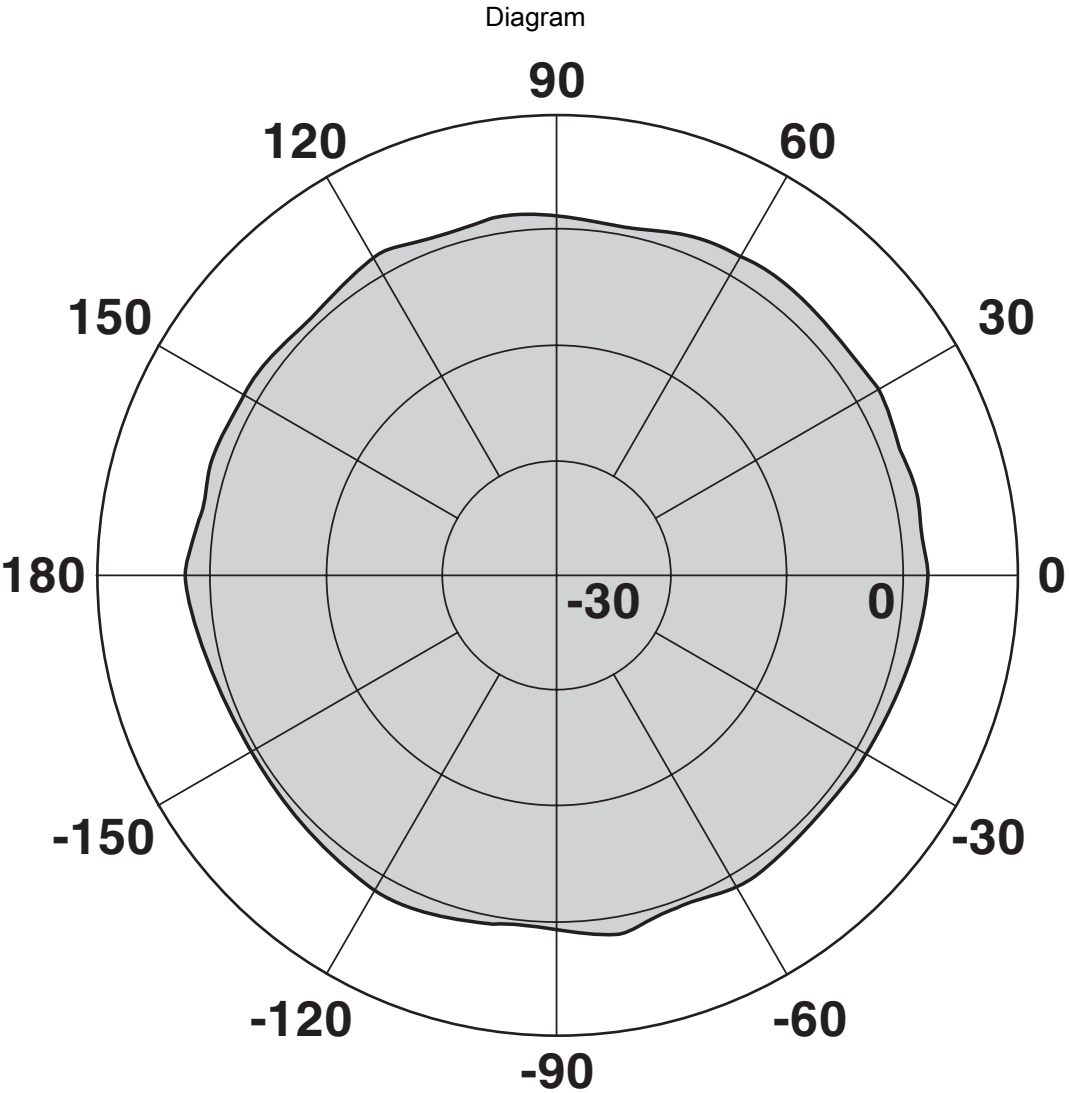
Schematic diagram



Installation example

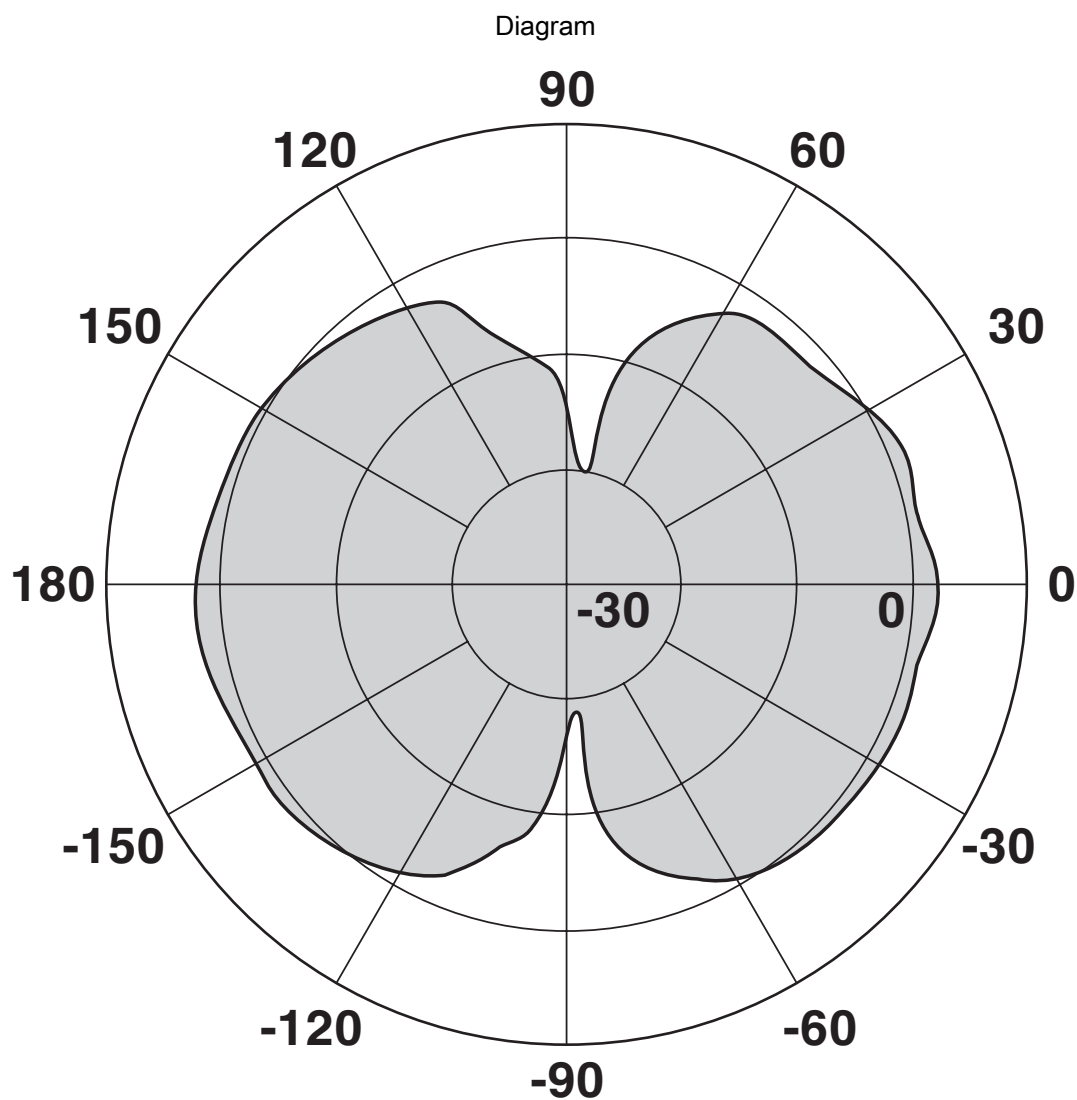
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Vertical

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## 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  |
| 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                                | 2dd8bac9-1de0-467b-b35e-76e19d7c0951 |

## EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.239 kg CO2e |
|---------|---------------|