

# TC ANT MOBILE WALL 5M - Antenna



2702273

<https://www.phoenixcontact.com/us/products/2702273>

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Multiband omnidirectional antenna for wall or mast mounting, 0.6 GHz ... 6 GHz, gain: 3 dBi ... 7 dBi, degree of protection: IP66, connection: SMA (male), incl. 5 m connecting cable, mounting bracket, and mast clamps

## Your advantages

- Ideally suited for freely mobile or stationary applications in 2G/3G/4G/5G cellular networks
- Future-proof, thanks to the use of lead-free materials
- Including 5 m connection cable

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2702273       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN23          |
| Product key                          | DNC4Z1        |
| GTIN                                 | 4055626070186 |
| Weight per piece (including packing) | 416.9 g       |
| Weight per piece (excluding packing) | 372 g         |
| Customs tariff number                | 85177100      |
| Country of origin                    | GB            |

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## Technical data

### Notes

#### Note on application

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

### Product properties

|                           |                             |
|---------------------------|-----------------------------|
| Product type              | Antenna                     |
| Radiation characteristics | Omnidirectional             |
| Gain                      | 4 dBi (617 MHz ... 960 MHz) |
|                           | 3 dBi (1.7 GHz ... 2.7 GHz) |
|                           | 5 dBi (3.4 GHz ... 3.8 GHz) |
|                           | 7 dBi (4.9 GHz ... 6.0 GHz) |
| Vertical beamwidth        | 52 ° (850 MHz)              |
|                           | 39 ° (2.1 GHz)              |
|                           | 51 ° (3.5 GHz)              |
|                           | 39 ° (5.5 GHz)              |
| Horizontal beamwidth      | 360 °                       |
| Polarization              | Linear vertical             |

### Electrical properties

|   |                     |
|---|---------------------|
| Frequency band                                    | 700 MHz             |
|   | 800 MHz             |
|   | 850 MHz             |
|   | 900 MHz             |
|   | 1700 MHz            |
|   | 1800 MHz            |
|   | 1900 MHz            |
|   | 2100 MHz            |
|   | 2600 MHz            |
|   | 3600 MHz            |
| Frequency range                                   | 617 MHz ... 960 MHz |
|   | 1.7 GHz ... 6 GHz   |
| Impedance   | 50 Ω                |
| Maximum capacity                                  | 10.00 W             |
| Voltage standing wave ratio VSWR in a 50 Ω system | ≤ 2.50              |

### Connection data

#### Connection technology

|                   |            |
|-------------------|------------|
| Connection method | SMA (male) |
|-------------------|------------|

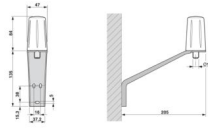
### Dimensions

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|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Height              | 82 mm  |
| Diameter            | 48 mm  |

## Material specifications

|  |                                |
|--|--------------------------------|
| Color                                  | black (RAL 9005)               |
| Material (Radom)                       | Acrylonitrile styrene acrylate |
| Material (Base plate)                  | Aluminum                       |
| Flammability rating according to UL 94 | HB                             |
| Outer sheath, material                 | CS29 (Ultra-Low Loss)          |

## Cable/line

|   |   |
|---|---|
| Cable length                                | 5.00 m  |
| Connecting cable                            | yes   |
| External cable diameter                     | 5.00 mm   |
| Outer sheath, material                      | CS29 (Ultra-Low Loss)   |
| Smallest bending radius, fixed installation | 25 mm   |
| Other resistance                            | UV-resistant in accordance with UL746C, f1 (Use in outdoor installations) |

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Degree of protection                    | IP66             |
| Ambient temperature (operation)         | -40 °C ... 85 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Wind velocity                           | 220 km/h         |

## Standards and regulations

|                  |   |
|------------------|---|
| Other resistance | UV-resistant in accordance with UL746C, f1 (Use in outdoor installations) |
|------------------|---|

## Mounting

|               |                |
|---------------|----------------|
| Mounting type | Panel mounting |
|               | Mast mounting  |

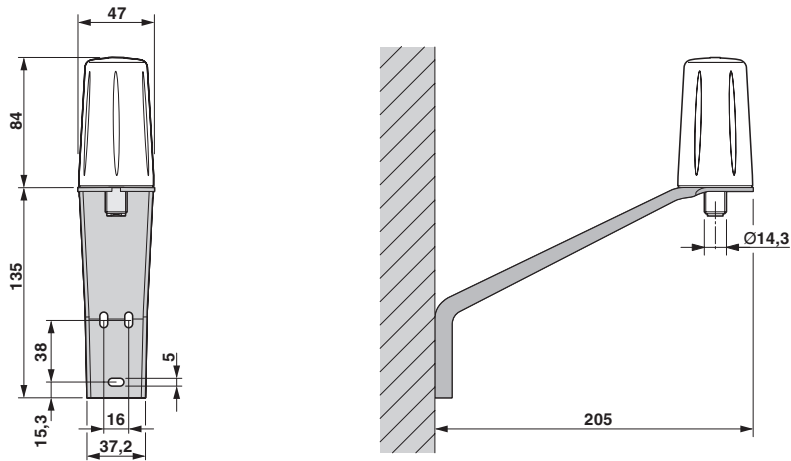
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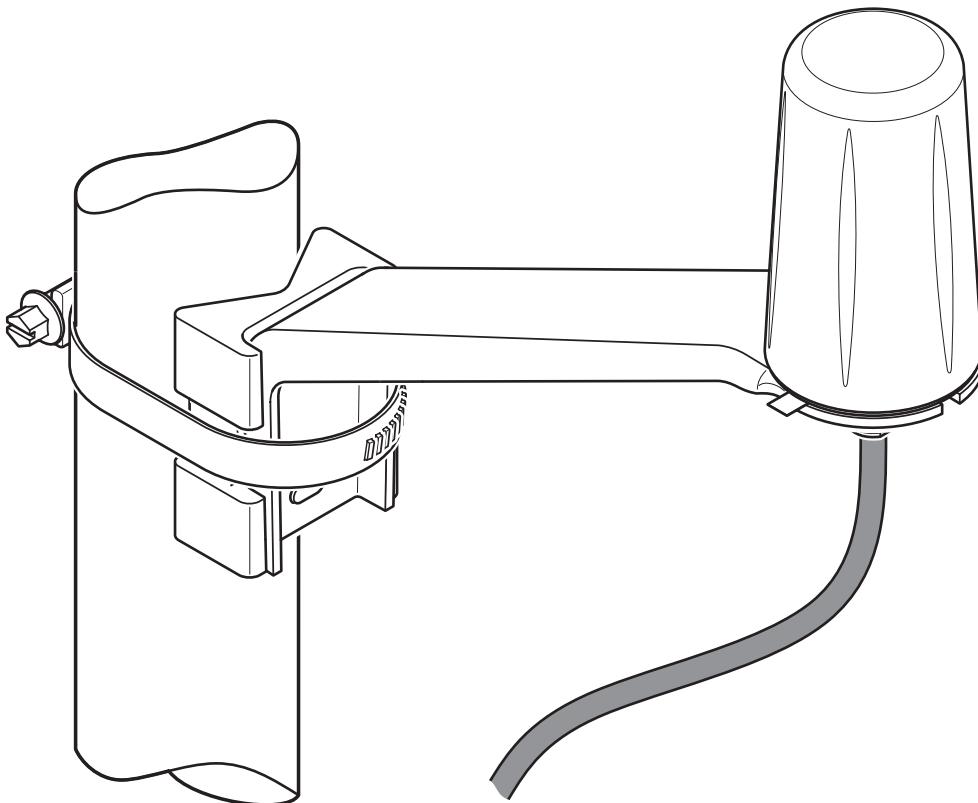
## Drawings

Dimensional drawing



Panel mounting

Schematic diagram



Mast mounting

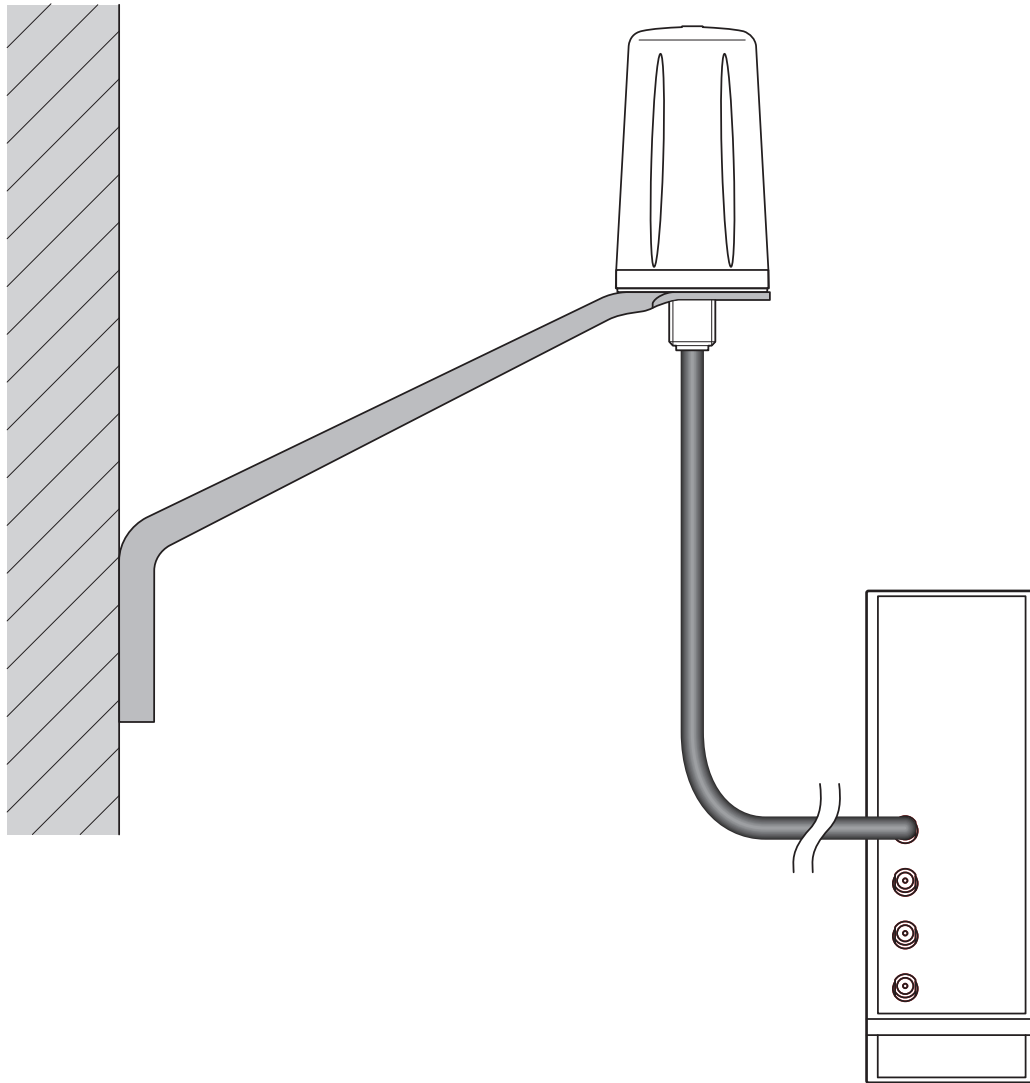
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Schematic diagram



Installation example

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## Classifications

### ECLASS

ECLASS-13.0

19070105

### ETIM

ETIM 9.0

EC001698

### 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-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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