

RAD-ISM-2459-ANT-FOOD-6-0-N - Antenna

2702898

<https://www.phoenixcontact.com/us/products/2702898>



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Multiband omnidirectional antenna with protection against vandalism for control cabinet mounting, frequency band: 2.4 GHz / 5 GHz / 6 GHz, gain: 6 dBi / 8 dBi / 8 dBi, degree of protection: IP68, shockproof: IK08, resistant to cleaning agents, shock- and vibration-resistant, connection: N (female)



Your advantages

- Ideally suited for freely mobile applications with 2.4 GHz, 5 GHz, or 6 GHz
- Resistant to cleaning agents
- Impact-resistant housing (IK08)
- Shock- and vibration-resistant

Commercial data

Item number	2702898
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNN2Z1
Catalog page	Page 388 (C-6-2019)
GTIN	4055626378992
Weight per piece (including packing)	239 g
Weight per piece (excluding packing)	232.5 g
Customs tariff number	85177100
Country of origin	PL

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Technical data

Notes

Note on application	Only for industrial use
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Product properties

Product type	Antenna
Radiation characteristics	Omnidirectional
Gain	6 dBi (2.4 GHz ... 2.5 GHz, when mounted on metal surface) 8 dBi (4.9 GHz ... 7.1 GHz, when mounted on metal surface)
Vertical beamwidth	25 ° (2.4 GHz ... 2.5 GHz) 30 ° (4.9 GHz ... 7.1 GHz)
Horizontal beamwidth	360 °
Polarization	Linear vertical

Electrical properties

Frequency band	2.4 GHz 5 GHz 6 GHz
Frequency range	2.4 GHz ... 2.5 GHz 4.9 GHz ... 7.1 GHz
Impedance	50 Ω
Maximum capacity	75.00 W

Connection data

Connection technology	
Connection method	N (female)

Dimensions

Height	51 mm
Diameter	92 mm

Material specifications

Material	ASA, Acrylic ester styrene-acrylonitrile
	Aluminum
Flammability rating according to UL 94	HB

Cable/line

Connecting cable	No
Other resistance	Resistant to cleaning agents

Environmental and real-life conditions

Ambient conditions	
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Degree of protection	IP68
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Wind velocity	160 km/h

Approvals

Electronic devices in rail vehicles

Shock (operation)	35g (EN 60068-2-27)
Vibration (operation)	24 h (EN 60068-2-64)

Standards and regulations

Other resistance	Resistant to cleaning agents
Standards/specifications	EN 45545-2
	NF F16-101/102
Note	Fire protection on railway vehicles
Standards/specifications	EN 50155
Note	Railway application

Mounting

Mounting type	Control cabinet
Assembly note	Protection class: IP68, only when mounted on a level surface
	Accessories required
	Outdoors and indoors

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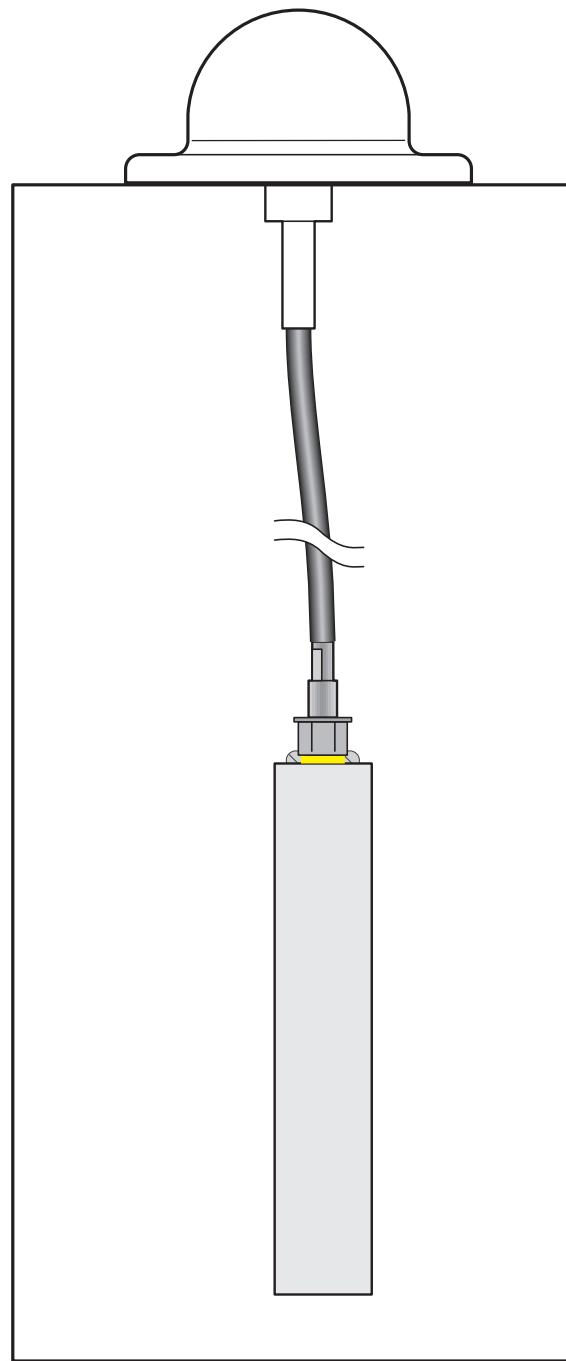
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Drawings

Schematic diagram



Installation example

Classifications

ECLASS

ECLASS-11.0	19070105
ECLASS-12.0	19070105
ECLASS-13.0	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	5e52783c-3bd5-4883-88d5-06c280a8dc17

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Accessories

RAD-ANT-VAN-MKT - Mounting material

2885870

<https://www.phoenixcontact.com/us/products/2885870>

Mounting material for wall mounting of omnidirectional antenna with protection against vandals



RAD-PIG-RSMA/N-0.5 - Antenna cable

2903263

<https://www.phoenixcontact.com/us/products/2903263>

Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.4 / 0.5 / 0.6 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 0.5 m (1.6 ft.)



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RAD-PIG-RSMA/N-1 - Antenna cable

2903264

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Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 1 m (3.3 ft.)



RAD-PIG-RSMA/N-2 - Antenna cable

2903265

<https://www.phoenixcontact.com/us/products/2903265>

Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.9 / 1.3 / 2.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 2 m (6.5 ft.)



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RAD-PIG-RSMA/N-3 - Antenna cable

2903266

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Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 1.2 / 2.0 / 3.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 3 m (10 ft.)



RAD-PIG-RSMA/N-5 - Antenna cable

2702140

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Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 2.0 / 3.3 / 4.8 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 5 m (16 ft.)



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