

# RAD-ISM-900-RX - Wireless module



2867047  
<https://www.phoenixcontact.com/us/products/2867047>

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Receiver to expand point-to-multipoint connections, for unidirectional wireless 900 MHz transmission system (America)

## Your advantages

- Two omnidirectional antennas
- Conducted transmitters can either be supplied with 24 V DC or 120/240 V AC
- The receiver for DIN rail mounting is supplied with 24 V DC
- Frequency hopping spread spectrum
- Operates in the license-free 902 MHz ... 928 MHz ISM band
- Two pre-programmed transceivers that automatically communicate with each other
- The transmitter can be installed on a DIN rail or outdoors (IP65)

## Commercial data

Item number	2867047
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC651
Catalog page	Page 466 (C-8-2013)
GTIN	4017918929589
Weight per piece (including packing)	300.4 g
Weight per piece (excluding packing)	300.4 g
Customs tariff number	85176990
Country of origin	CA

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## Technical data

### Product properties

Product type	Wireless module
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### Electrical properties

#### Supply Receiver

Supply voltage	24 V DC (at $U_B$ )
Supply voltage range	12 V DC ... 30 V DC
Typical current consumption	85 mA
Max. current consumption	125 mA

### Output data

#### Digital

Output name	2x relay output + 1 x RF link
Contact switching type	3 floating changeover contacts
Contact material	Ag, gold-plated
Maximum switching voltage	30 V DC 120 V AC
Limiting continuous current	0.5 A
Service life electrical	$8 \times 10^5$ cycles at a switching current of 0.5 A
Mechanical service life	$1 \times 10^7$

#### Analog

Output name	Current output
Current output signal	4 mA ... 20 mA
Load/output load current output	$700 \Omega$ (at $U_B = 24 \text{ V}$ , $R_B = [U_B - 10 \text{ V}] / 20 \text{ mA}$ )

### Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section flexible	$0.2 \text{ mm}^2$ ... $2.5 \text{ mm}^2$
Conductor cross section rigid	$0.2 \text{ mm}^2$ ... $2.5 \text{ mm}^2$
Cross section AWG	24 ... 14
Screw thread	M3

### Interfaces

#### Wireless

Direction	Uni-directional
Number of channel groups	4
Number of channels per group	63

#### Wireless

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Frequency band	900 MHz
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## Dimensions

Width	17.5 mm
Height	99 mm
Depth	114.5 mm

## Material specifications

Color	green
Housing material	Polyamide PA non-reinforced

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
	-40 °F ... 158 °F
Ambient temperature (storage/transport)	-40 °C ... 85 °C

## Approvals

### Conformity/Approvals

Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

## EMC data

Electromagnetic compatibility	FCC Part 15.247 / ISC RSS 210
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## Mounting

Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

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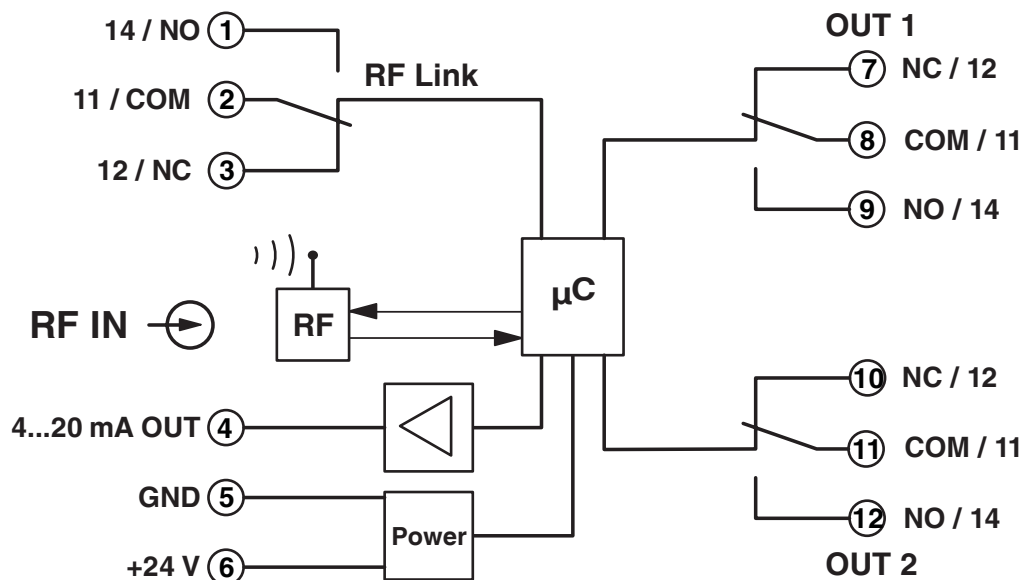


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## Drawings

Block diagram



Receiver module

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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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## Accessories

### RAD-ISM-900-ANT-OMNI-5 - Antenna

2867199

<https://www.phoenixcontact.com/us/products/2867199>



Omnidirectional antenna, 900 MHz, gain: 7 dBi, polarization: linear, opening angle: h/v 360°/30°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

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### RAD-ISM-900-ANT-OMNI-FG-3-N - Antenna

2867791

<https://www.phoenixcontact.com/us/products/2867791>



Omnidirectional antenna, 900 MHz, gain: 5 dBi, polarization: linear, opening angle: h/v 360°/28°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

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## RAD-ISM-900-ANT-YAGI-3-N - Antenna

2867801

<https://www.phoenixcontact.com/us/products/2867801>



Directional antenna, 868 MHz / 900 MHz, gain: 5 dBi, polarization: linear, opening angle: h/v 168°/78°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

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## RAD-ISM-900-ANT-YAGI-6.5-N - Antenna

2867814

<https://www.phoenixcontact.com/us/products/2867814>



Directional antenna, 868 MHz / 900 MHz, gain: 8.5 dBi, polarization: linear, opening angle: h/v 100°/62°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

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## RAD-ISM-900-ANT-YAGI-6.5-25-AS - Antenna

2867827

<https://www.phoenixcontact.com/us/products/2867827>

Panel antenna with surge protection, adapter cable MCX->N and assembly material, IP65 protection, gain 8.5 dBi, cable length 7.6 m, connection N (female)



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## RAD-ISM-900-ANT-YAGI-6.5-50-AS - Antenna

2867830

<https://www.phoenixcontact.com/us/products/2867830>

Panel antenna with surge protection, adapter cable MCX->N and assembly material, IP65 protection, gain 8.5 dBi, cable length 15.2 m, connection N (female)





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## RAD-ISM-900-ANT-OMNI-0-6 - Antenna

2867160

<https://www.phoenixcontact.com/us/products/2867160>



Omnidirectional antenna, 900 MHz, gain: 2 dBi, polarization: linear, opening angle: h 360°, degree of protection: IP65, connection: MCX (male), incl. 2 m / 6.5 ft. connecting cable and mounting bracket for wall mounting

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## RAD-CAB-RG58-10 - Antenna cable

2867364

<https://www.phoenixcontact.com/us/products/2867364>

Antenna extension cable, length: 10 ft



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## RAD-CAB-RG58-20 - Antenna cable

2867212

<https://www.phoenixcontact.com/us/products/2867212>

Antenna extension cable, length: 20 ft



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## RAD-CAB-RG213-25 - Antenna cable

2867597

<https://www.phoenixcontact.com/us/products/2867597>

Antenna extension cable, length: 25 ft



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## RAD-CAB-RG213-40 - Antenna cable

2867377

<https://www.phoenixcontact.com/us/products/2867377>

Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 2.9 dB at 900 MHz, connection: 2 x N (male), cable length: 12 m (40 ft.)



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## RAD-CAB-RG213-50 - Antenna cable

2867225

<https://www.phoenixcontact.com/us/products/2867225>

Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 3.5 dB at 900 MHz, connection: 2 x N (male), cable length: 15 m (50 ft.)



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### RAD-CAB-PFP400-60 - Antenna cable

2867380

<https://www.phoenixcontact.com/us/products/2867380>

Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 2.5 / 4.2 / 6.3 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 18 m (60 ft.)



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### RAD-CAB-PFP400-80 - Antenna cable

2867393

<https://www.phoenixcontact.com/us/products/2867393>

Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 3.3 / 5.6 / 8.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 24 m (80 ft.)



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## RAD-CAB-PFP400-100 - Antenna cable

2867238

<https://www.phoenixcontact.com/us/products/2867238>

Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 4.1 / 6.9 / 10.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 30 m (100 ft.)



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## RAD-CAB-LMR600-125 - Antenna cable

2885210

<https://www.phoenixcontact.com/us/products/2885210>

Antenna extension cable, length: 125 ft



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## RAD-CAB-PFP600-150 - Antenna cable

2885184

<https://www.phoenixcontact.com/us/products/2885184>

Antenna cable, outside diameter: 15 mm (0.6 in.), inner conductor: solid, attenuation: 3.9 / 6.8 / 10.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 45 m (150 ft.)



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## RAD-CAB-PFP900-200 - Antenna cable

2885197

<https://www.phoenixcontact.com/us/products/2885197>

Antenna extension cable, length: 200 ft



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## RAD-CON-MCX-N-SB - Antenna cable

2867717

<https://www.phoenixcontact.com/us/products/2867717>

Antenna cable, outside diameter: 2.5 mm (0.1 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: MCX (male) -> N (female), cable length: 1.2 m (4 ft.)



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## RAD-CON-SMA-N-SS - Antenna cable

2867403

<https://www.phoenixcontact.com/us/products/2867403>

Antenna cable, outside diameter: 2.5 mm (0.1 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: SMA (male) -> N (male), cable length: 1.2 m (4 ft.)



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## RAD-CON-MCX-MCX-SS - Antenna cable

2867607

<https://www.phoenixcontact.com/us/products/2867607>

Antenna cable, outside diameter: 2.8 mm (0.11 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: MCX (male) -> MCX (male), cable length: 0.3 m (1 ft.)



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## RAD-CON-MCX90-N-SS - Antenna cable

2885207

<https://www.phoenixcontact.com/us/products/2885207>

Antenna cable, outside diameter: 2.5 mm (0.1 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: 90° MCX (male) -> N (male), cable length: 1.2 m (4 ft.)





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## RAD-ISM-900-ANT-4 - Antenna splitter

2867050

<https://www.phoenixcontact.com/us/products/2867050>

4-way distributor for antenna signals (antenna splitter), MCX connection (female)



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## RAD-ISM-900-ANT-OMNI-FG-6-N - Antenna

2885579

<https://www.phoenixcontact.com/us/products/2885579>

Omnidirectional antenna, 900 MHz, gain: 8 dBi, polarization: linear, opening angle: h/v 360°/15°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips



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## RAD-CON-MCX-RPSMA-EX - Antenna cable

2885621

<https://www.phoenixcontact.com/us/products/2885621>



Antenna barrier, installation: Class I, Div. 1, Grps. A, B, C, D; Class II, Div. 1, Grps. F, G, frequency range: 0.3G Hz ... 6 GHz, connection: RSMA (male) -> MCX (male), incl. 0.7 m / 2.3 ft. connection cable, UL HazLoc approval

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