

# 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
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

## 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

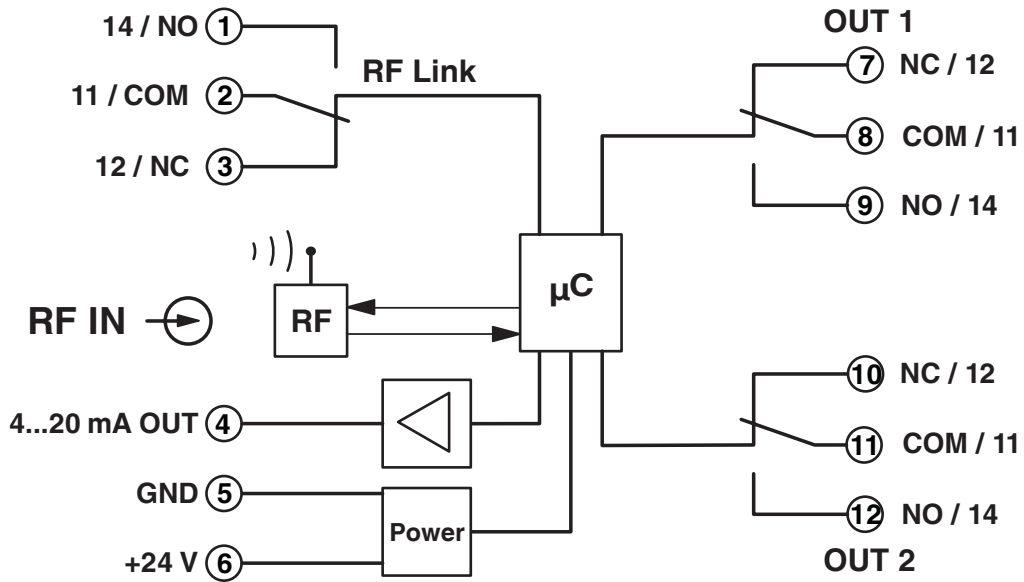
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## Drawings

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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