

# RAD-ISM-2400-SET-UD-ANT - Wireless module



2867283

<https://www.phoenixcontact.com/us/products/2867283>

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Unidirectional, wireless, 2400 MHz transmission system, comprising a transmitter (Tx) and a receiver (Rx)

## Your advantages

- Trusted Wireless technology with frequency hopping method
- No parameterization or programming required
- License-free 2.4 GHz ISM band

## Commercial data

Item number	2867283
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC652
GTIN	4017918946708
Weight per piece (including packing)	560.3 g
Weight per piece (excluding packing)	530.3 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 -50 % / +25 % (at $U_B$ )
Supply voltage range	12 V DC ... 30 V DC
Typical current consumption	54 mA
Max. current consumption	120 mA

#### Supply Transmitter

Supply voltage	24 V DC -50 % / +25 %
Supply voltage range	12 V DC ... 30 V DC
Typical current consumption	35 mA
Max. current consumption	45 mA

### Input data

#### Digital

Input voltage range	5 V AC/DC ... 30 V AC/DC
Switching threshold "0" signal, voltage	max. 1.5 V DC
Switching threshold "1" signal voltage	min. 5 V DC

#### Analog

Description of the input	Current input (analog input)
Current input signal	4 mA ... 20 mA
Input resistance current input	< 170 $\Omega$

#### Analog

Description of the input	Voltage input (digital input)
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### 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 30 V AC
Limiting continuous current	0.5 A
Service life electrical	8x 10 <sup>5</sup> cycles at a switching current of 0.5 A
Mechanical service life	1x 10 <sup>7</sup>

#### Analog

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Output name	Current output
Current output signal	4 mA ... 20 mA
Load/output load current output	700 Ω (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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section AWG	24 ... 14
Screw thread	M3

## Interfaces

### Wireless

Direction	Uni-directional
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### Wireless

Direction	Uni-directional
Frequency range	2.4032 GHz ... 2.4799 GHz
Channel distance	100 kHz
Number of channel groups	9
Number of channels per group	63
Transmission power	10 mW

### Wireless

Frequency band	2.4 GHz
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## Dimensions

Width	17.5 mm
Height	99 mm
Depth	114.5 mm

## Material specifications

Color (Housing)	green (RAL 6021)
Material (Housing)	Polyamide

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Degree of protection	IP20
Degree of protection	IP20
Ambient temperature (operation) (Set)	-20 °C ... 65 °C
Ambient temperature (operation)	-4 °F ... 149 °F
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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## Approvals

### CE

Certificate	CE-compliant
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### ATEX

Identification	Ⓜ II 3 G EEx nL IIC
Note	Please follow the special installation instructions in the documentation!

### IECEX

Identification	Ex nL IIC T4
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## EMC data

Electromagnetic compatibility	Conformance with R&TTE directive 1999/5/EC
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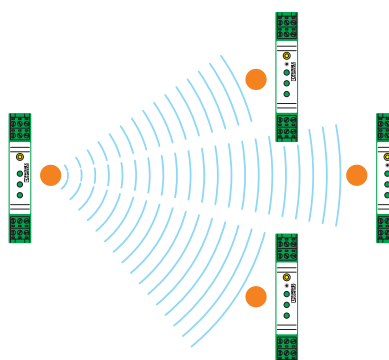
## Drawings

Application drawing

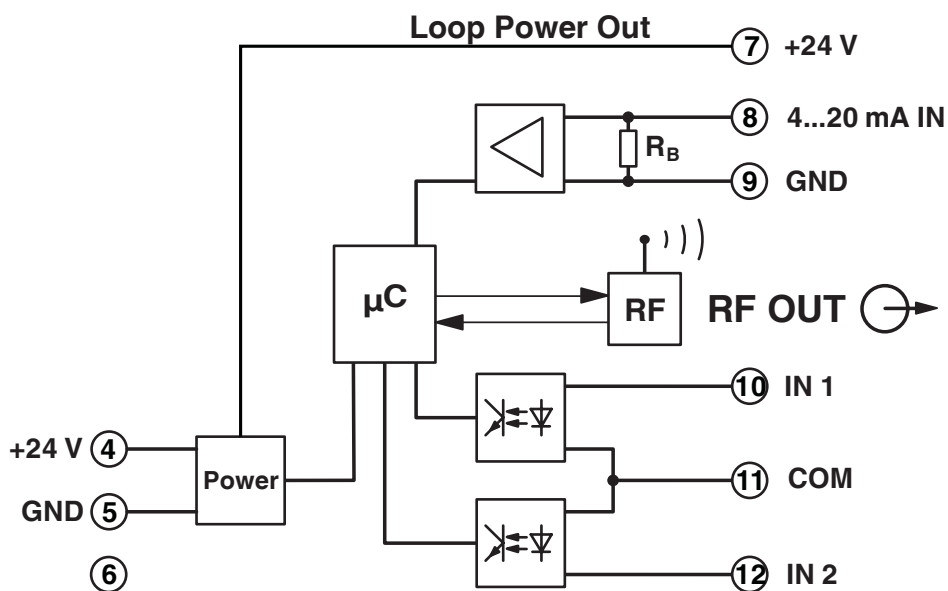
**Point-to-point**



**Point-to-multipoint**



Block diagram



Transmitter module

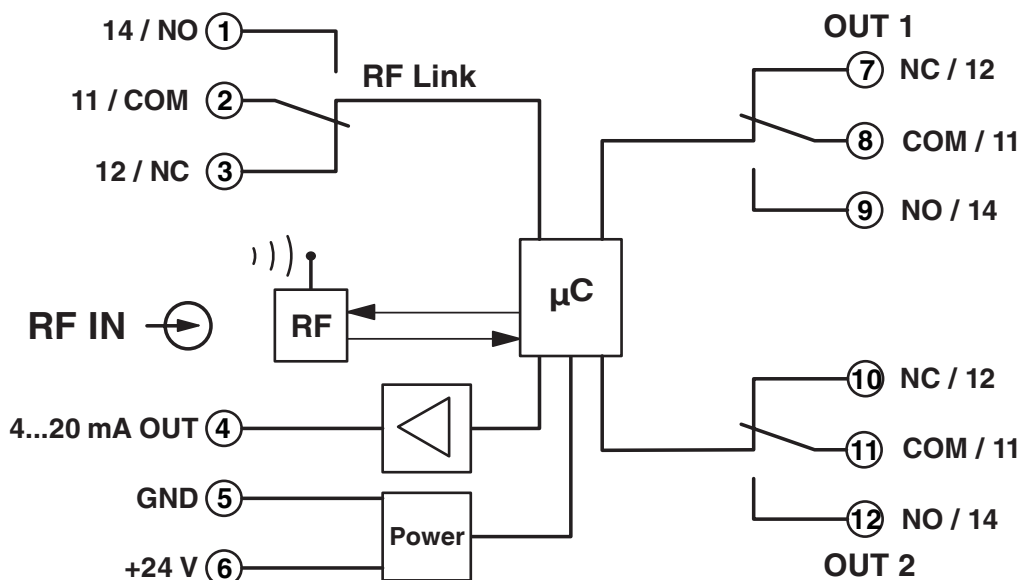
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Block diagram



Receiver module

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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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