

RAD-ISM-900-SET-UD-ANT - Wireless module



2867102

<https://www.phoenixcontact.com/us/products/2867102>

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Unidirectional, wireless, 900 MHz transmission system (America), made up of a transmitter (Tx) and a receiver (Rx) and two antennas with connecting cable



Your advantages

- Frequency hopping spread spectrum
- 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
- Two omnidirectional antennas
- Operates in the license-free 902 MHz ... 928 MHz ISM band
- The transmitter can be installed on a DIN rail or outdoors (IP65)
- Two pre-programmed transceivers that automatically communicate with each other

Commercial data

Item number	2867102
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC651
GTIN	4017918929558
Weight per piece (including packing)	748 g
Weight per piece (excluding packing)	654.4 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

Supply Transmitter

Supply voltage	24 V DC
Supply voltage range	12 V DC ... 30 V DC
Typical current consumption	75 mA
Max. current consumption	350 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	< 150 Ω

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 120 V AC
Limiting continuous current	0.5 A
Service life electrical	8x 10 ⁵ cycles at a switching current of 0.5 A
Mechanical service life	1x 10 ⁷

Analog

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

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section rigid	0.2 mm ² ... 2.5 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

Direction	Uni-directional
Frequency range	902 MHz ... 928 MHz
Number of channel groups	4
Number of channels per group	63
Transmission power	1 W

Wireless

Frequency band	900 MHz
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Dimensions

Width	17.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Color	green
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Environmental and real-life conditions

Ambient conditions

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

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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

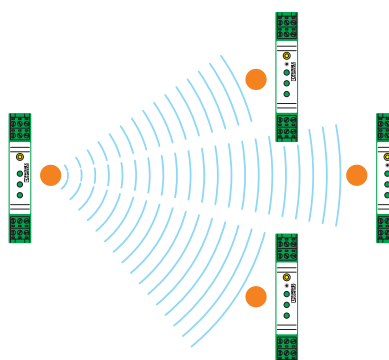
Drawings

Application drawing

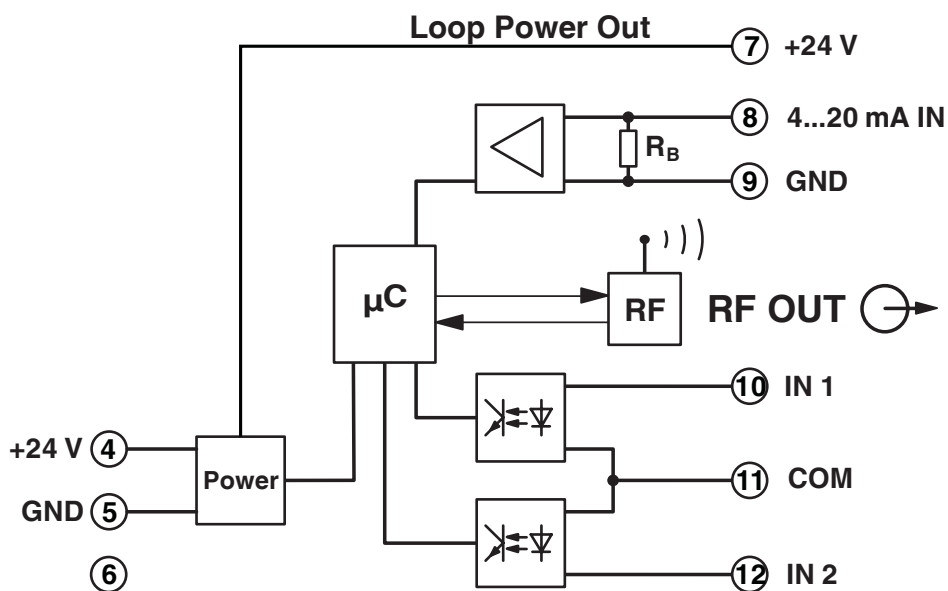
Point-to-point



Point-to-multipoint



Block diagram



Transmitter module

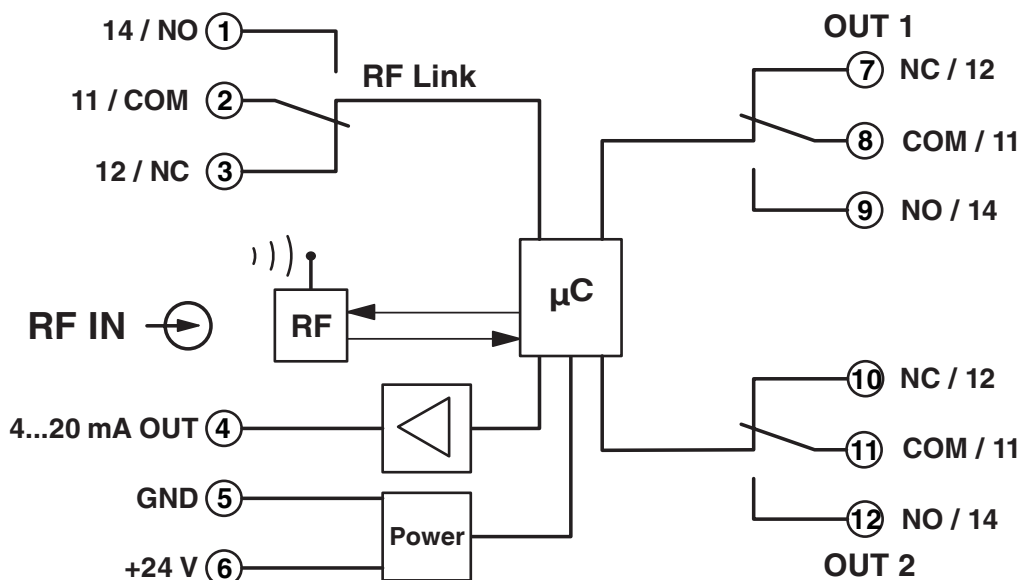
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Block diagram



Receiver module

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Environmental product compliance

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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