

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



2867416

<https://www.phoenixcontact.com/us/products/2867416>

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



Your advantages

- Conducted transmitters can either be supplied with 24 V DC or 120/240 V AC
- Frequency hopping spread spectrum
- Two omnidirectional antennas
- The receiver for DIN rail mounting is supplied with 24 V DC
- 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	2867416
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC651
GTIN	4046356046817
Weight per piece (including packing)	888.88 g
Weight per piece (excluding packing)	888.88 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	< 170 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 $U_B = 24\text{ V}$, $R_B = [U_B - 10\text{ V}] / 20\text{ mA}$)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross-section flexible	0.2 mm 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	2
Number of channels per group	63

Wireless

Direction	Uni-directional
Frequency range	915.1 MHz ... 927.8 MHz
Number of channel groups	2
Number of channels per group	63
Transmission power	1 W

Wireless

Frequency range	915.1 MHz ... 927.8 MHz
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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
Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
	IP20
	IP20

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Ambient temperature (operation)	-40 °C ... 70 °C
	-4 °F ... 149 °F
Ambient temperature (storage/transport)	-40 °C ... 85 °C

EMC data

Electromagnetic compatibility	FCC Part 15.247
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Mounting

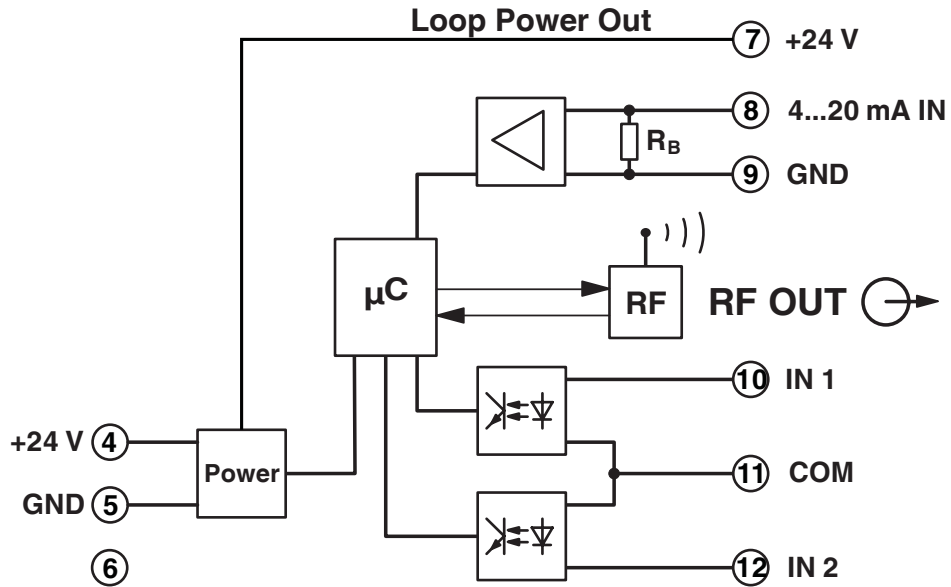
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

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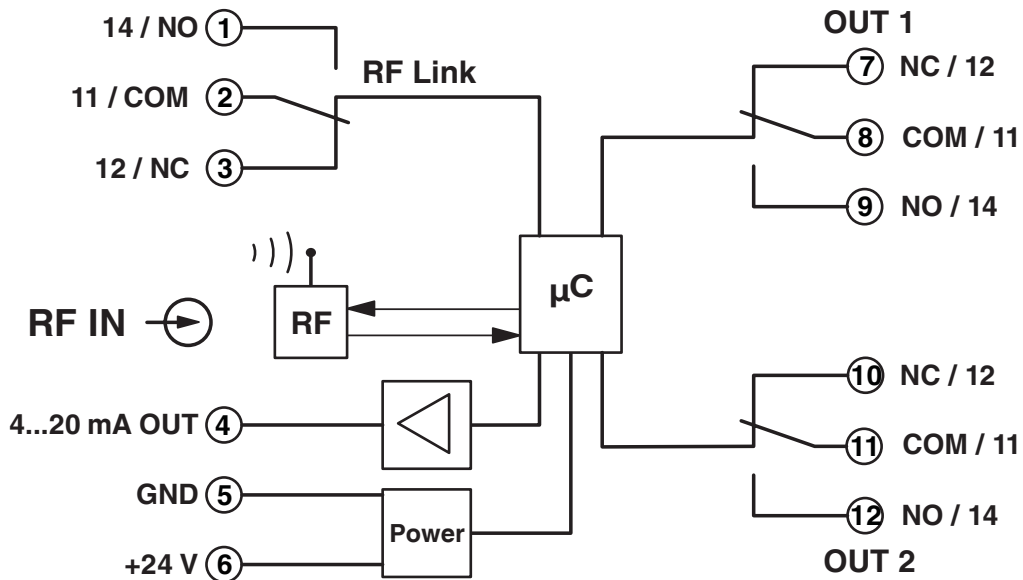
Drawings

Block diagram



Transmitter module

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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