

RAD-ISM-900-SET-BD-BUS - Wireless module



2867089

<https://www.phoenixcontact.com/us/products/2867089>

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Bidirectional, wireless, 900 MHz transmission system (America), made up of 2 transceivers (transmitter and receiver)

Your advantages

- Frequency hopping spread spectrum
- The integrated bus foot enables connection to additional I/O modules
- Each transceiver has 1 analog input (4 ... 20 mA) and 2 digital inputs (5 ... 30 V AC/DC), as well as 1 analog output and 2 digital outputs, for direct connection to compatible sensors and actuators and for data transmission in both directions
- Status of the wireless connection via a relay (RF link)
- Individual transceivers are listed under Class I, Division 2
- Operates in the license-free 902 MHz ... 928 MHz ISM band
- Two omnidirectional antennas (optional)
- Additional transceivers can be added to configure repeater systems
- Two pre-programmed transceivers that automatically communicate with each other
- No additional parameterization or programming required

Commercial data

Item number	2867089
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DNC651
GTIN	4017918929596
Weight per piece (including packing)	413.1 g
Weight per piece (excluding packing)	413.1 g
Customs tariff number	85176200
Country of origin	CA

Technical data

Product properties

Product type	Wireless module
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Electrical properties

Supply

Supply voltage	24 V DC
Supply voltage range	9 V DC ... 30 V DC
Typical current consumption	75 mA
Max. current consumption	24 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
Number of outputs	3
Contact switching type	3 floating N/O contacts
Contact material	Ag, gold-plated
Maximum switching voltage	30 V DC
	250 V AC
Limiting continuous current	2 A

Analog

Output name	Current output
Number of outputs	1
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

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Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Cross section AWG	24 ... 14
Screw thread	M3

Interfaces

Wireless

Direction	Bi-directional
Frequency range	902 MHz ... 928 MHz
Channel distance	22 kHz
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	22.5 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
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approvals

Conformity/Approvals

Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210

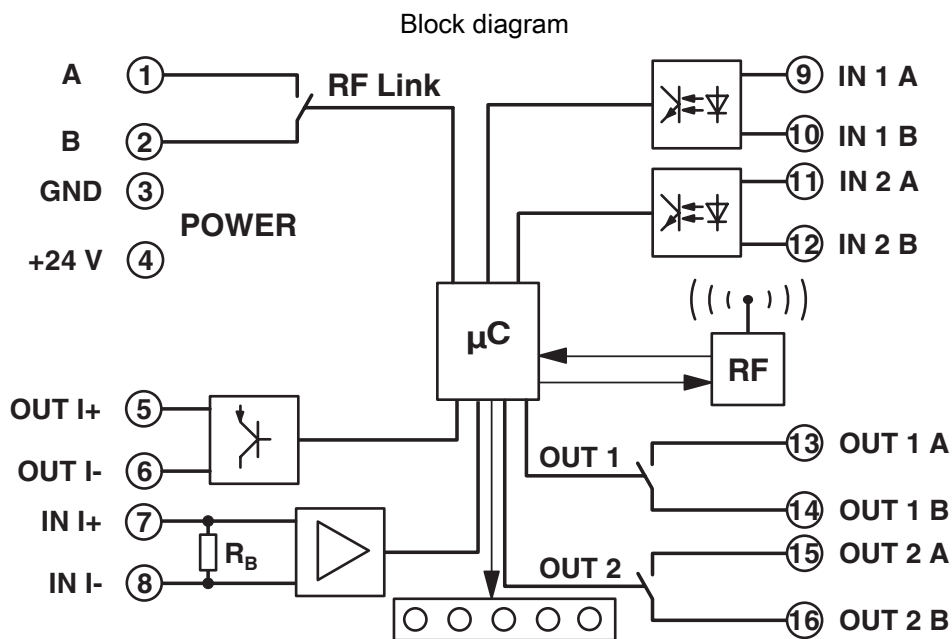
EMC data

Electromagnetic compatibility	FCC Part 15.247 / ISC RSS 210
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Mounting

Assembly note	DIN rail NS 35
Mounting position	any

Drawings



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Environmental product compliance

EU REACH SVHC

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