

# RAD-ISM-2400-SET-BD-BUS-ANT - Wireless module



2867733

<https://www.phoenixcontact.com/us/products/2867733>

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Bidirectional, wireless, 2400 MHz transmission system, comprising 2 transceivers (transmitter and receiver) and two antennas with connecting cable

## Your advantages

- Trusted Wireless technology with frequency hopping method
- No parameterization or programming required
- Up to eight I/O extension modules can be connected via bus foot
- License-free 2.4 GHz ISM band

## Commercial data

Item number	2867733
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DNC652
GTIN	4017918975067
Weight per piece (including packing)	744.5 g
Weight per piece (excluding packing)	731.5 g
Customs tariff number	85176200
Country of origin	CA

## Technical data

### Product properties

Product type	Wireless module
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### Electrical properties

Maximum power dissipation for nominal condition	3.6 W
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#### Supply

Supply voltage	24 V DC -50 % / +25 %
Supply voltage range	12 V DC ... 30 V DC
Typical current consumption	75 mA
Max. current consumption	150 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 30 V AC
Limiting continuous current	0.5 A

#### Analog

Output name	Current output
Number of outputs	1
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
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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> ... 4 mm <sup>2</sup>
Cross section AWG	24 ... 14
Screw thread	M3

## Interfaces

### Wireless

Direction	Bi-directional
Frequency	2400 MHz
Frequency range	2.4032 GHz ... 2.4799 GHz
Channel distance	500 kHz
Number of channel groups	7
Number of channels per group	22
Transmission power	10 mW

### Wireless

Frequency band	2.4 GHz
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## Dimensions

Width	22.5 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
Ambient temperature (operation)	-20 °C ... 65 °C -4 °F ... 149 °F
Ambient temperature (storage/transport)	-40 °C ... 85 °C

## 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

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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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## Mounting

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

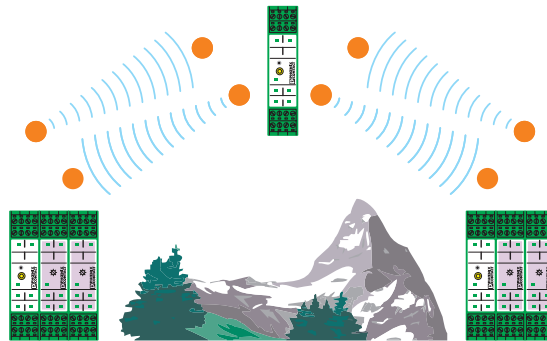
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## Drawings

### Application drawing

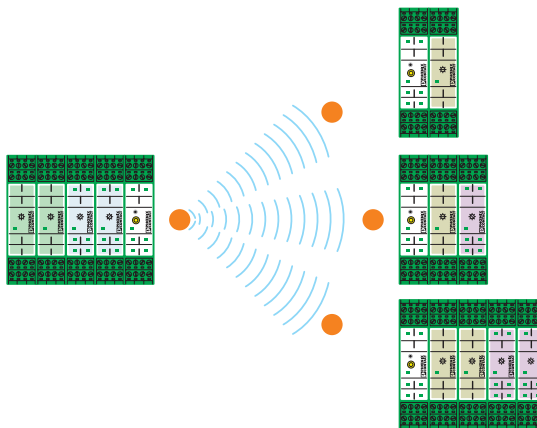
**Repeater**  
(bidirectional)



**Point-to-point**  
(bidirectional)



**Point-to-multipoint**  
(unidirectional)



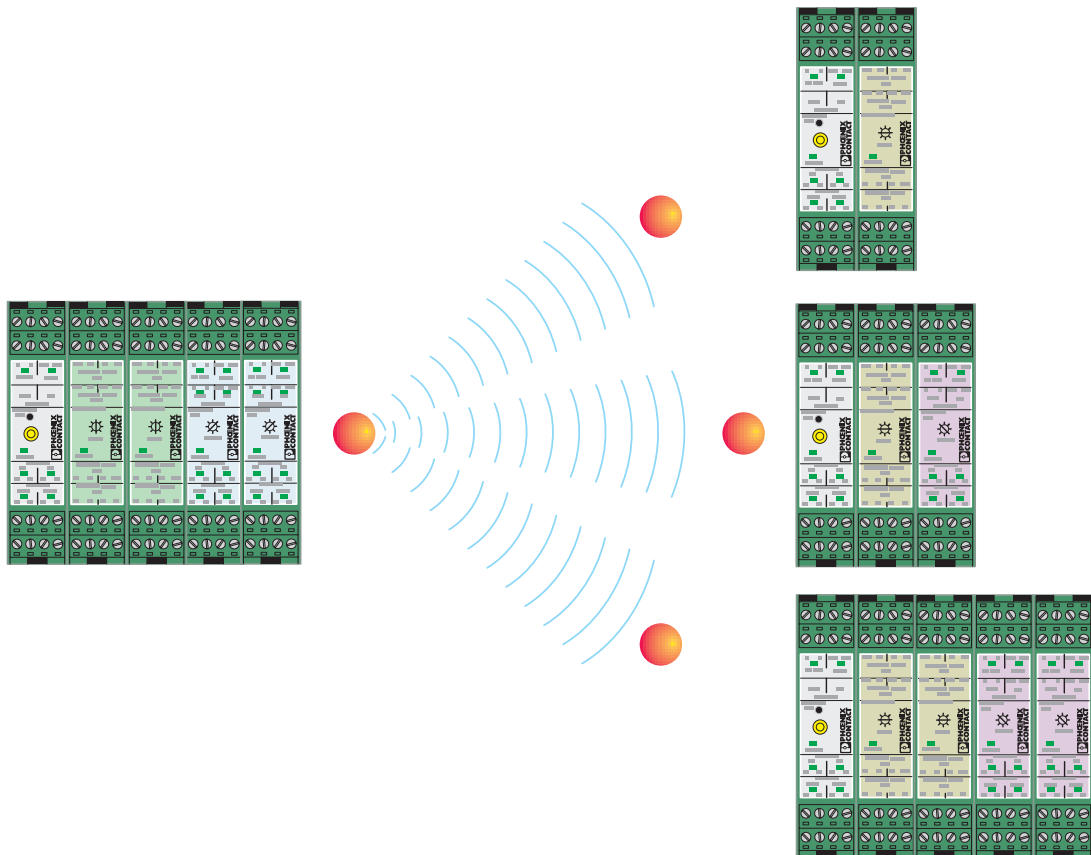
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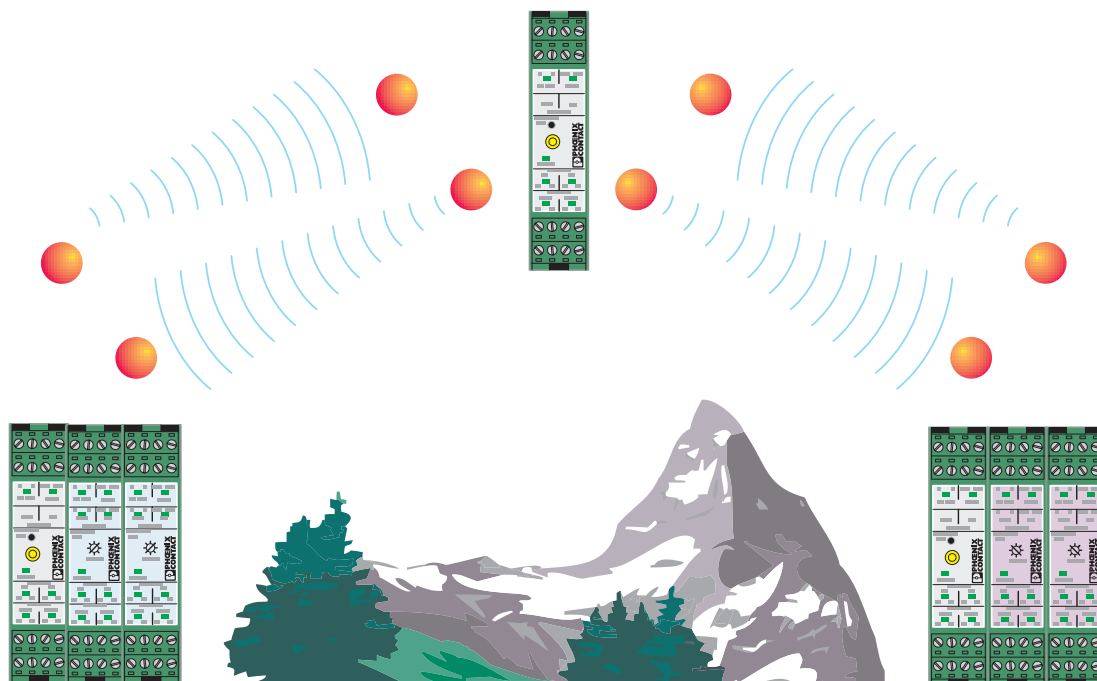
Application drawing



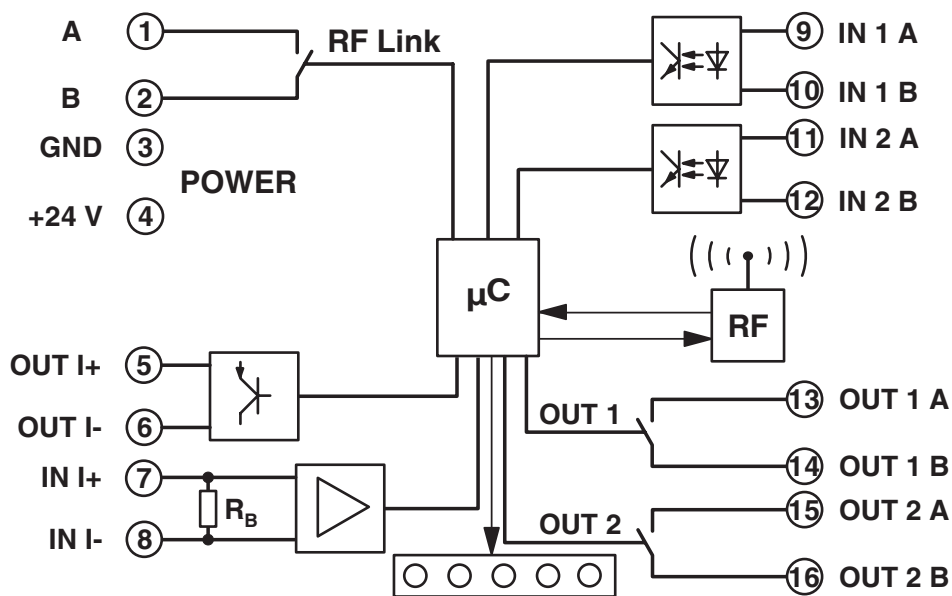
Application drawing



## Application drawing



## Block diagram



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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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