

# RAD-ISM-900-SET-BD-BUS-ANT-AU - Wireless module



2867490

<https://www.phoenixcontact.com/us/products/2867490>

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Bidirectional, wireless, 900 MHz transmission system (Australia), made up of 2 transceivers (transmitter and receiver) and two antennas with connecting cable

## 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)
- Operates in the license-free 902 MHz ... 928 MHz ISM band
- Individual transceivers are listed under Class I, Division 2
- 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                          | 2867490                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | DN26                           |
| Product key                          | DNC651                         |
| GTIN                                 | 4046356046886                  |
| Weight per piece (including packing) | 888.88 g                       |
| Weight per piece (excluding packing) | 888.88 g                       |
| Customs tariff number                | 85176200                       |
| Country of origin                    | CA                             |

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## Technical data

### Product properties

|              |                 |
|--------------|-----------------|
| Product type | Wireless module |
|--------------|-----------------|

### 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    | 200 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) |

### 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 $U_B = 24$ V, $R_B = [U_B - 10]$ V) / 20 mA |

### Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
| Stripping length  | 8 mm             |

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|                                  |   |
|----------------------------------|---|
| 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 range              | 915.1 MHz ... 927.8 MHz |
| Number of channel groups     | 2                       |
| Number of channels per group | 63                      |
| Transmission power           | 1 W                     |

### Wireless

|                |         |
|----------------|---------|
| Frequency band | 900 MHz |
|----------------|---------|

## 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 °F ... 158 °F<br>-40 °C ... 85 °C |

## EMC data

|                               |                 |
|-------------------------------|-----------------|
| Electromagnetic compatibility | FCC Part 15.247 |
|-------------------------------|-----------------|

## Mounting

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

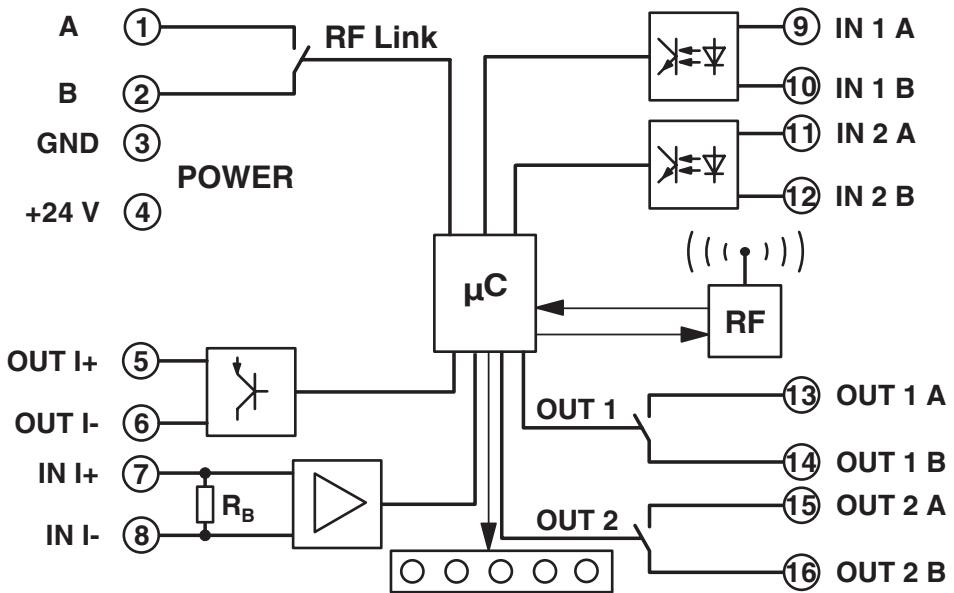
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## Drawings

## Block diagram



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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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