

# RAD-ISM-900-SET-AC-UD - Wireless module



2867021

<https://www.phoenixcontact.com/us/products/2867021>

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Unidirectional, wireless, 900 MHz transmission system (America), consists of an outdoor transmitter (transmitter, Tx) with 100...240 V AC supply, a DIN-mountable receiver (receiver, Rx) with 12...30 V DC supply, and antennas

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2867021                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | DN26                           |
| Product key                          | DNC651                         |
| GTIN                                 | 4017918929565                  |
| Weight per piece (including packing) | 991.6 g                        |
| Weight per piece (excluding packing) | 991.6 g                        |
| Customs tariff number                | 85176990                       |
| Country of origin                    | CA                             |

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## Technical data

### Product properties

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

### 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              | 230 V AC              |
| Supply voltage range        | 100 V AC ... 240 V AC |
| Typical current consumption | 57 mA                 |
| Max. current consumption    | 109 mA                |

### Input data

#### Digital

|                     |                      |
|---------------------|----------------------|
| Input voltage range | 85 V AC ... 240 V AC |
|---------------------|----------------------|

#### Analog

|                                |                              |
|--------------------------------|------------------------------|
| Description of the input       | Current input (analog input) |
| Current input signal           | 4 mA ... 20 mA               |
| Input resistance current input | < 170 $\Omega$               |

#### Analog

|                          |                               |
|--------------------------|-------------------------------|
| Description of the input | Voltage input (digital input) |
|--------------------------|-------------------------------|

### 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<br>120 V AC                                    |
| Limiting continuous current | 0.5 A  |
| Service life electrical     | $8 \times 10^5$ cycles at a switching current of 0.5 A |
| Mechanical service life     | $1 \times 10^7$  |

#### Analog

|                       |                |
|-----------------------|----------------|
| Output name           | Current output |
| Current output signal | 4 mA ... 20 mA |

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|                                 |  |
|---------------------------------|--|
| Load/output load current output | 700 Ω (at $U_B = 24\text{ V}$ , $R_B = [U_B - 10\text{ V}] / 20\text{ mA}$ ) |
|---------------------------------|--|

## 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 |
|----------------|---------|

## Dimensions

|        |          |
|--------|----------|
| Width  | 17.5 mm  |
| Height | 99 mm    |
| Depth  | 114.5 mm |

## Environmental and real-life conditions

### Ambient conditions

|   |                   |
|---|-------------------|
| Degree of protection                    | IP65              |
|   | 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  |

## Approvals

### Conformity/Approvals

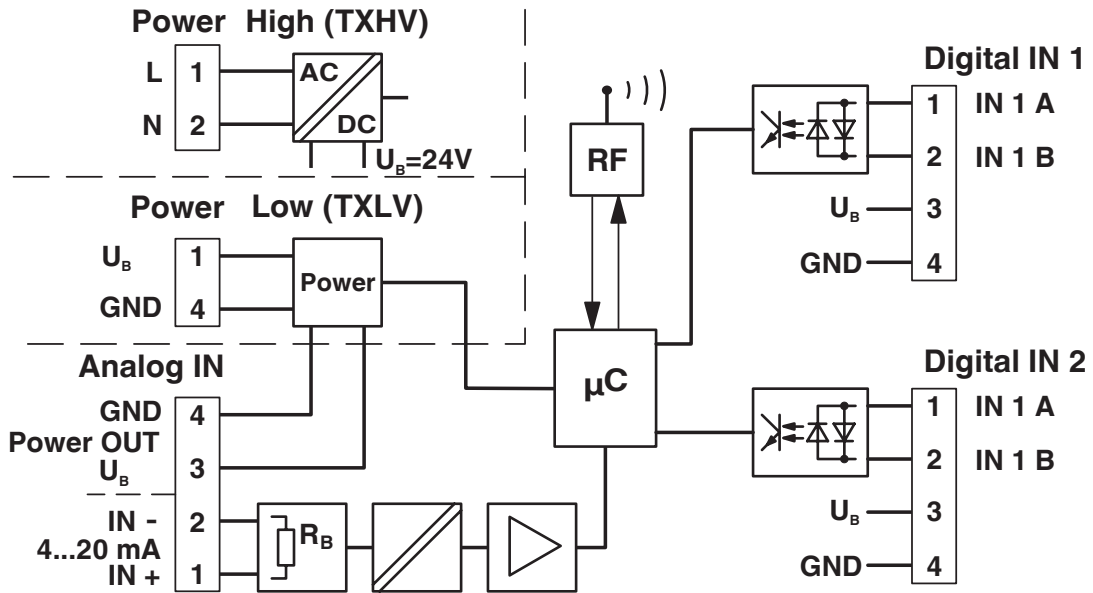
|                  |                                    |
|------------------|------------------------------------|
| Conformance      | FCC Directive, Part 15.247         |
|                  | ISC Directive RSS 210              |
| UL, USA / Canada | Class I, Div. 2, Groups A, B, C, D |

## EMC data

|                               |                               |
|-------------------------------|-------------------------------|
| Electromagnetic compatibility | FCC Part 15.247 / ISC RSS 210 |
|-------------------------------|-------------------------------|

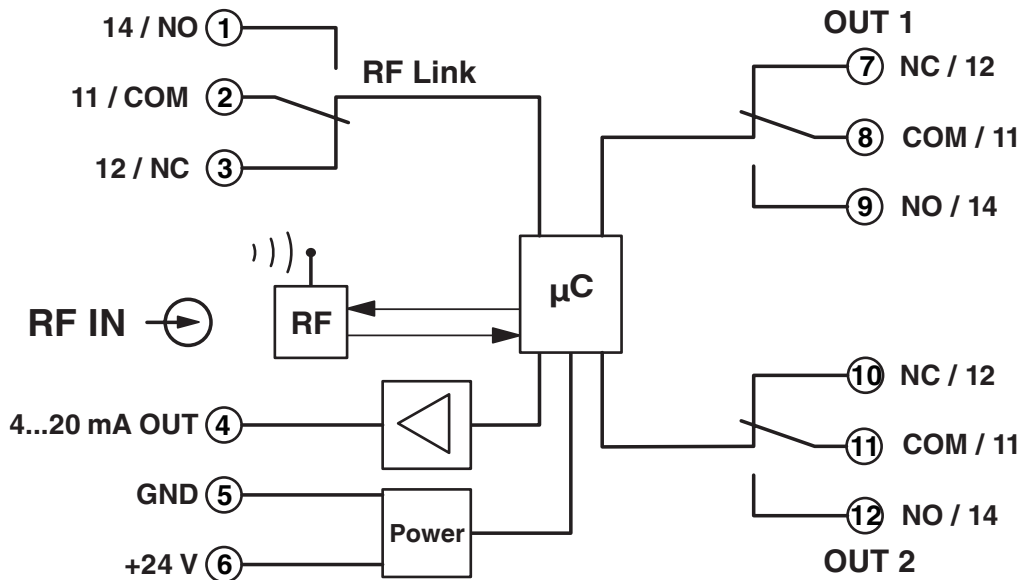
Drawings

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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