

Wireless module - RAD-ISM-900-SET-DC-UD - 2867034

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Unidirectional, wireless, 900 MHz transmission system (America), consists of an outdoor transmitter (transmitter, Tx) with 9...30 V DC supply, a DIN-mountable receiver (receiver, Rx) with 12...30 V DC supply, and antennas



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	891.0 g
Country of origin	Canada

Technical data

Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
-------------------	------------------------------------------------------------------------------------------------

Dimensions

Width	17.5 mm
Height	99 mm
Depth	114.5 mm
Width	57 mm
Height	57 mm
Depth	280 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

Wireless set

Set contents	Transmitter, receiver
--------------	-----------------------

Wireless module - RAD-ISM-900-SET-DC-UD - 2867034

Technical data

Wireless path

Direction	Uni-directional
Frequency range	902 MHz ... 928 MHz
Number of channel groups	4
Number of channels per group	63
Transmission power	1 W

Analog input (sender)

Description of the input	Current input (analog input)
Current input signal	4 mA ... 20 mA
Input resistance current input	< 170 Ω

Digital input (sender)

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 output (receiver)

Output name	Current output
Current output signal	4 mA ... 20 mA
Load/output load current output	700 Ω (at $U_B = 24 \text{ V}$, $R_B = [U_B - 10 \text{ V}] / 20 \text{ mA}$)

Digital output (receiver)

Output name	2 x relay output + 1 x RF link
Contact type	3 floating PDT contacts
Contact material	Ag, gold-plated
Maximum switching voltage	30 V DC
	120 V AC
Limiting continuous current	0.5 A
Mechanical service life	1×10^7
Service life, electrical	8×10^5 cycles at a switching current of 0.5 A

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 (sender)

Supply voltage	24 V DC
Supply voltage range	9 V DC ... 30 V DC

Wireless module - RAD-ISM-900-SET-DC-UD - 2867034

Technical data

Supply (sender)

Typical current consumption	75 mA
Max. current consumption	350 mA

General

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

Standards and Regulations

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

Classifications

eCl@ss

eCl@ss 4.0	27250312
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	19179290
eCl@ss 9.0	19179290

ETIM

ETIM 2.0	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	43223108
UNSPSC 11	39121008
UNSPSC 12.01	43223108
UNSPSC 13.2	43223108

Wireless module - RAD-ISM-900-SET-DC-UD - 2867034

Accessories

Accessories

Adapter cable

Antenna cable - RAD-CON-MCX-N-SB - 2867717



Adapter cable, pigtail 120 cm MCX(m) -> N(f)

Antenna cable - RAD-CON-SMA-N-SS - 2867403



Adapter cable, pigtail 120 cm SMA(m) -> N(m)

Antenna cable - RAD-CON-MCX-MCX-SS - 2867607



Adapter cable, 30 cm, MCX(m) to MCX (m)

Antenna cable - RAD-CON-MCX90-N-SS - 2885207



Adapter cable, pigtail 120 cm 90° MCX(m) -> N(m)

Antenna cable - RAD-CON-MCX-RPSMA-EX - 2885621



Barrier for antenna installation in Ex Class I, Div. 1 and 2; 76 cm; Type RSMA (male) to MCX (male); UL listing

Wireless module - RAD-ISM-900-SET-DC-UD - 2867034

Accessories

Antenna

Antenna - RAD-ISM-900-ANT-OMNI-5 - 2867199



Omnidirectional antenna, IP65 protection, gain 7 dBi, connection N (female)

Antenna - RAD-ISM-900-ANT-OMNI-FG-3-N - 2867791



Omnidirectional antenna, IP65 protection, gain 5 dBi, connection N (female)

Antenna - RAD-ISM-900-ANT-YAGI-3-N - 2867801



Panel antenna, IP65 protection, gain 5 dBi, cable length 0.6 m, connection N (female)

Antenna - RAD-ISM-900-ANT-YAGI-6.5-N - 2867814



Panel antenna, IP65 protection, gain 8.5 dBi, cable length 0.6 m, connection N (female)

Antenna - RAD-ISM-900-ANT-YAGI-6.5-25-AS - 2867827



Panel antenna with surge protection, adapter cable MCX->N and assembly material, IP65 protection, gain 8.5 dBi, cable length 7.6 m, connection N (female)

Wireless module - RAD-ISM-900-SET-DC-UD - 2867034

Accessories

Antenna - RAD-ISM-900-ANT-YAGI-6.5-50-AS - 2867830



Panel antenna with surge protection, adapter cable MCX->N and assembly material, IP65 protection, gain 8.5 dBi, cable length 15.2 m, connection N (female)

Antenna - RAD-ISM-900-ANT-OMNI-0-6 - 2867160



Omnidirectional antenna, IP65 protection, cable length 2 m, connection MCX (male)

Antenna - RAD-ISM-900-ANT-OMNI-FG-6-N - 2885579



Omnidirectional antenna, IP65 protection, gain 8 dBi, connection N (female)

Coaxial adapter

Antenna splitter - RAD-ISM-900-ANT-4 - 2867050



4-way distributor for antenna signals (antenna splitter), MCX connection (female)

Coaxial cable

Antenna cable - RAD-CAB-RG58-10 - 2867364



Antenna extension cable, length: 10 ft

Wireless module - RAD-ISM-900-SET-DC-UD - 2867034

Accessories

Antenna cable - RAD-CAB-RG58-20 - 2867212



Antenna extension cable, length: 20 ft

Antenna cable - RAD-CAB-RG213-25 - 2867597



Antenna extension cable, length: 25 ft

Antenna cable - RAD-CAB-RG213-40 - 2867377



Antenna extension cable, length: 40 ft

Antenna cable - RAD-CAB-RG213-50 - 2867225



Antenna extension cable, length: 50 ft

Antenna cable - RAD-CAB-PFP400-60 - 2867380



Antenna extension cable, length: 60 ft

Wireless module - RAD-ISM-900-SET-DC-UD - 2867034

Accessories

Antenna cable - RAD-CAB-PFP400-80 - 2867393



Antenna extension cable, length: 80 ft

Antenna cable - RAD-CAB-PFP400-100 - 2867238



Antenna extension cable, length: 100 ft

Antenna cable - RAD-CAB-LMR600-125 - 2885210



Antenna extension cable, length: 125 ft

Antenna cable - RAD-CAB-PFP600-150 - 2885184



Antenna extension cable, length: 150 ft

Antenna cable - RAD-CAB-PFP900-200 - 2885197

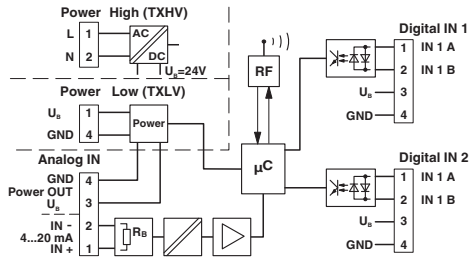


Antenna extension cable, length: 200 ft

Drawings

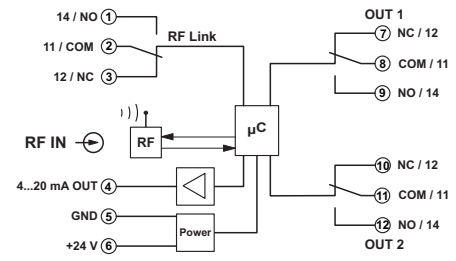
Wireless module - RAD-ISM-900-SET-DC-UD - 2867034

Block diagram



Transmitter module

Block diagram



Receiver module