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Unidirectional, wireless, 900 MHz transmission system (America), made up of a transmitter (Tx) and a receiver (Rx) and two antennas with connecting cable

Product Features

- Two pre-programmed transceivers that automatically communicate with each other
- The transmitter can be installed on a DIN rail or outdoors (IP65)
- Operates in the license-free 902 928 MHz ISM band
- The receiver for DIN rail mounting is supplied with 24 V DC
- Two omnidirectional antennas
- Conducted transmitters can either be supplied with 24 V DC or 120/240 V AC
- Frequency hopping spread spectrum



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	708.4 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.
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Dimensions

Width	17.5 mm
Height	99 mm
Depth	114.5 mm
Width	17.5 mm



Technical data

Dimensions

Height	99 mm
Depth	114.5 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, 2 aerials
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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	< 150 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 x 10 ⁷



Technical data

Digital output (receiver)

Service life, electrical	8 x 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	12 V DC 30 V DC
Typical current consumption	75 mA
Max. current consumption	350 mA

General

Mounting position	any
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

Connection data

Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

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
eCI@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

Accessories

Accessories

Adapter cable

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

Adapter cable, pigtail 120 cm $MCX(m) \rightarrow N(f)$





Accessories

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

Antenna

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



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



Accessories

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)

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)



Accessories

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

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



Antenna extension cable, length: 20 ft



Accessories

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

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



Antenna extension cable, length: 80 ft



Accessories

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

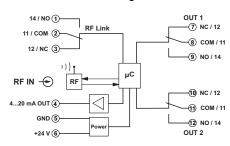
Drawings



Application drawing Point-to-point Point-to-multipoint Point-to-multipoint Block diagram Loop Power Out 7 +24 V REF RF OUT FRF RF OUT FR

Transmitter module

Block diagram



Receiver module

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