

2884208

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Wireless MUX set, two modules with 16 digital inputs and outputs and 2 analog inputs and outputs (0 \dots 20 mA, 0 \dots 10 V) each, RSMA (female) antenna connection, incl. omnidirectional antennas with 1.5 m cable

Product description

The Wireless MUX transmits 16 digital and 2 analog signals bidirectionally. The Wireless MUX is supplied ready to use: Unpack – connect – switch on – and you have a working wireless path.

Your advantages

- · Wireless diagnostics by means of bar graph
- Range of 50 m ... 100 m in industrial halls with omnidirectional antennas and up to 400 m outdoors with directional antennas
- · Quick connection establishment and signal transmission
- · Current Bluetooth 4.0 technology
- Plug and play startup without configuration
- It couldn't be simpler: unpack connect switch on

Commercial data

Item number	2884208
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNC662
Catalog page	Page 386 (C-6-2019)
GTIN	4046356049597
Weight per piece (including packing)	914 g
Weight per piece (excluding packing)	885 g
Customs tariff number	85176200
Country of origin	DE



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Set consists of

ILB BT ADIO MUX - Wireless set

2702875

https://www.phoenixcontact.com/us/products/2702875



Wireless MUX set, two modules with 16 digital inputs and outputs and 2 analog inputs and outputs (0 \dots 20 mA, 0 \dots 10 V) each, RSMA (female) antenna connection, without antennas

RAD-ISM-2400-ANT-OMNI-2-1-RSMA - Antenna

2701362

https://www.phoenixcontact.com/us/products/2701362



Omnidirectional antenna for wall mounting, frequency band: 2.4 GHz, gain: 2 dBi, degree of protection: IP65, connection: RSMA (male), incl. 1.5 m connecting cable, mounting bracket, and mounting material



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Technical data

Protective circuit

Notes

EMC note	EMC: class A product, see manufacturer's declaration in the download area
duct properties	
Туре	Block design
Product type	Wireless module
Product family	Inline
Application	I/O
MTTF	1458 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	557 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	219 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
MTBF	465 Years (Telcordia standard, 25°C temperature, 21% operat cycle (5 days a week, 8 hours a day))
	140 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
Diagnostics messages	Short-circuit or overload of the digital outputs LED
	Wireless connection FS LED
	Logic and actuator voltage LED
	Link quality of the wireless connection 4 LEDs
sulation characteristics	
Overvoltage category	II
Pollution degree	2
imes	
Switch-on time	≤ 3 s (Until the wireless connection is established)
Delay time	≤ 10 ms (Latency, typical)
	≤ 800 ms (Failsafe function for wireless interruption)
ctrical properties	
Maximum power dissipation for nominal condition	2.4 W
upply: Module electronics	
Connection method	Inline connector
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30.5 V DC (via power connector)
Current consumption	60 mA (Communications power at 24 V DC, 25 °C)
	25 mA (Actuator supply, +load current Digital OUT (8 A))
Destanting electif	Data 21 - and a flag and a state of a co

Polarity protection, surge protection



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Input data

Analog

Input name	Analog inputs
Description of the input	Single ended
Number of inputs	2
Current input signal	0 mA 20 mA
Input resistance current input	50 Ω
Voltage input signal	0 V 10 V
Input resistance of voltage input	130 kΩ
Measured value resolution	12 bits
Protective circuit	Surge voltage; Suppressor diodes in the analog inputs, current limitation via internal protective circuit

Digital

Input name	Digital inputs
Number of inputs	16
Connection method	Spring-cage connection
Connection technology	1-conductor
Input voltage range "0" signal	< 5 V
Input voltage range "1" signal	> 15 V
Nominal input voltage U _{IN}	24 V DC
Typical input current per channel	2.3 mA
Input frequency	≤ 10 Hz

Output data

Analog

Output name	Analog outputs
Number of outputs	2
Protective circuit	Transient protection
DAC resolution	12 bit
Current output signal	0 mA 20 mA
Load/output load current output	≤ 500 Ω
Voltage output signal	0 V 10 V
Load/output load voltage output	≥ 2 kΩ

Digital

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	1-conductor
Number of outputs	16
Protective circuit	Short-circuit protection, overload protection, protected against reverse voltages
Output current	8 A (Total)
Maximum output current per channel	500 mA



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Nominal output voltage	24 V DC
Output current when switched off	≤ 10 µA (When not loaded, a voltage can be measured even at an output that is not set.)
Nominal load, inductive	12 VA (1.2 H, 50 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W (48 Ω)
Reverse voltage resistance to short pulses	Reverse voltage proof
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Behavior at voltage switch-off	The output follows the power supply without delay
Overcurrent shut-down	≥ 0.7 A
Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	1-conductor
Number of outputs	16
Protective circuit	Short-circuit protection, overload protection, protected against reverse voltages
Output current	8 A (Total)
Maximum output current per channel	500 mA
Nominal output voltage	24 V DC
Output current when switched off	≤ 10 µA (When not loaded, a voltage can be measured even at an output that is not set.)
Nominal load, inductive	12 VA (1.2 H, 50 Ω)
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Reverse voltage resistance to short pulses	Reverse voltage proof
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Connection data

Conductor cross section, rigid	0.2 mm ² 1.5 mm ²
Conductor cross section, flexible	0.2 mm² 1.5 mm²
Conductor cross section, flexible [AWG]	16
Stripping length	8 mm

Interfaces

Functions

Wireless licenses	Europe, additional countries in the e-shop
Wireless	
Modulation type	GFSK (Gaussian Frequency Shift Keying)
Antenna connection method	RSMA (female)
No. of channels	40



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Frequency range	2.402 GHz 2.48 GHz (ISM bandwidth)
Frequency band	2.4 GHz
Wireless standard	Bluetooth
Transmission power	5 dBm
Receiver sensitivity	-95.00 dBm

Signaling

Diagnostic messages

Diagnostics	Short-circuit or overload of the digital outputs
Message	LED

Diagnostic messages

Diagnostics	Wireless connection
Message	FS LED

Diagnostic messages

Diagnostics	Logic and actuator voltage
Message	LED

Diagnostic messages

Diagnostics	Link quality of the wireless connection
Message	4 LEDs

Dimensions

Dimensional drawing	95
Width	95 mm
Height	123.4 mm
Depth	57 mm
Note on dimensions	with connectors

Material specifications

Color (Housing)	green (RAL 6021)
Material Housing	PA 6.6-FR

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C
Degree of protection	IP20
Air pressure (operation)	795 hPa 1080 hPa (up to 2000 m above sea level)
Air pressure (storage/transport)	66 kPa 108 kPa (up to 3500 m above sea level)



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Ambient temperature (storage/transport)	-25 °C 85 °C
Permissible humidity (operation)	95 % (non-condensing)
Permissible humidity (storage/transport)	95 %
paravala	
pprovals	
CE	
Certificate	CE-compliant
EAC	
Identification	EAC
UL, USA/Canada	
Identification	508 Listed
Wireless approval, Europe Note	RED 2014/53/EU
Note	RED 2014/55/E0
Wireless approval USA, FCC	
Identification	YG3ADIOMUX
Note	FCC directive, part 15.247
Wireless approval India, WPC	
Certificate	NR-ETA/5957
Wireless approval Japan, MIC	
Identification	Japan MIC (RF) ID:202-LSF002
Wireless approval Canada, IC	
Certificate	4720B-ADIOMUX
Note	ISC directive RSS 210
Wireless approval Mexico, IFT	
Certificate	IFT RCPPHIL19-2130
Wireless approval South Africa, ICASA	TA 0000/000
Certificate	TA-2006/032
KC approval for South Korea	
Certificate	MSIP-CRI-PCK-2884208
MC data	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Electrostatic discharge Standards/regulations	EN 61000-4-2
	2.10.000 12
Electrostatic discharge	
Contact discharge	± 6 kV (Test Level 3)
Discharge in air	± 8 kV (Test Level 3)



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Indirect discharge	± 6 kV
Comments	Criterion B
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	26 MHz 3 GHz (Test Level 3)
Field intensity	10 V/m
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	± 2 kV (Test Level 3)
Signal	± 2 kV (Signal line)
Comments	Criterion B
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Surge current lead (ourge)	
Surge current load (surge) Input	± 0.5 kV (symmetrical)
,	± 1 kV (asymmetrical)
Signal	± 1 kV (Signal line, asymmetrical)
Comments	Criterion B
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Frequency range	0.15 MHz 80 MHz
Comments	Criterion A
Voltage	10 V
Emitted interference	
Emitted radio interference in acc. with EN 55011	EN 55016-2-3 Class A industrial applications
Criteria	
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected
	by the device itself.
andards and regulations	
Protection class	III
Free from substances that could impair the application of coating	in accordance with VW-AUDI-Seat central standard P-VW 3.10. 57 65 0



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Standards/specifications	EN 300328
	EN 61000-6-4
	EN 61000-6-2
	EN 62311
	EN 60950
Mounting	
Mounting type	DIN rail mounting



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Classifications

UNSPSC 21.0

ECLASS

27242602
27242602
27242602
EC001597

32151600



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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