

ILB BT ADIO MUX - Wireless set



2702875

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

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

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	2702875
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNC662
GTIN	4055626369846
Weight per piece (including packing)	645.6 g
Weight per piece (excluding packing)	630 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Wireless module
Product family	Inline
Application	I/O
Type	Stand-alone
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%)
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

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Times

Delay time	≤ 10 ms (Latency, typical)
	≤ 800 ms (Failsafe function for wireless interruption)

Electrical properties

Maximum power dissipation for nominal condition	1.44 W
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Supply: 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 (at 24 V DC, at 25 °C)
Protective circuit	Polarity protection, surge protection

Input data

Analog:

Input name	Analog inputs
Description of the input	Single ended
Number of inputs	2

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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 k Ω
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

Output data

Analog:

Output name	Analog outputs
Number of outputs	2
DAC resolution	12 bit
Current output signal	0 mA ... 20 mA
Load/output load current output	$\leq 500 \Omega$
Voltage output signal	0 V ... 10 V
Load/output load voltage output	$\geq 2 \text{ k}\Omega$

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
Maximum output current per channel	500 mA
Nominal output voltage	24 V DC
Output current when switched off	$\leq 10 \mu\text{A}$ (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	$\geq 0.7 \text{ A}$

Connection data

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

Interfaces

Functions

Wireless licenses	Europe, USA, Canada, additional countries in the e-shop
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Wireless

Modulation type	GFSK (Gaussian Frequency Shift Keying)
Antenna connection method	RSMA (female)
No. of channels	40
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

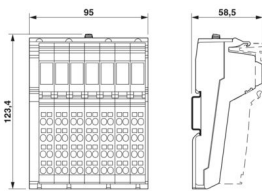
Dimensions

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Dimensional drawing	
	
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)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	95 % (non-condensing)
Permissible humidity (storage/transport)	95 %

Approvals

CE

Certificate	CE-compliant
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UL, USA/Canada

Identification	508 Listed
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Wireless approval, Europe

Note	RED 2014/53/EU
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Wireless approval USA, FCC

Identification	YG3ADIOMUX
Note	FCC directive, part 15.247

Wireless approval India, WPC

Certificate	NR-ETA/5957
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Wireless approval Japan, MIC

Identification	Japan MIC (RF) ID:202-LSF002
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Wireless approval Canada, IC

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Certificate	4720B-ADIOMUX
Note	ISC directive RSS 210

Wireless approval Mexico, IFT

Certificate	IFT RCPPHIL19-2130
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Wireless approval South Africa, ICASA

Certificate	TA-2006/032
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KC approval for South Korea

Certificate	MSIP-CRI-PCK-2884208
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EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Contact discharge	± 6 kV (Test Level 3)
Discharge in air	± 8 kV (Test Level 3)
Comments	Criterion B

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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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
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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
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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
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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
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Criteria

Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

Standards and regulations

Protection class	III
Free from substances that could impair the application of coating	VDMA 24364:2018-05
Standard designation	RED directive 2014/53/EU
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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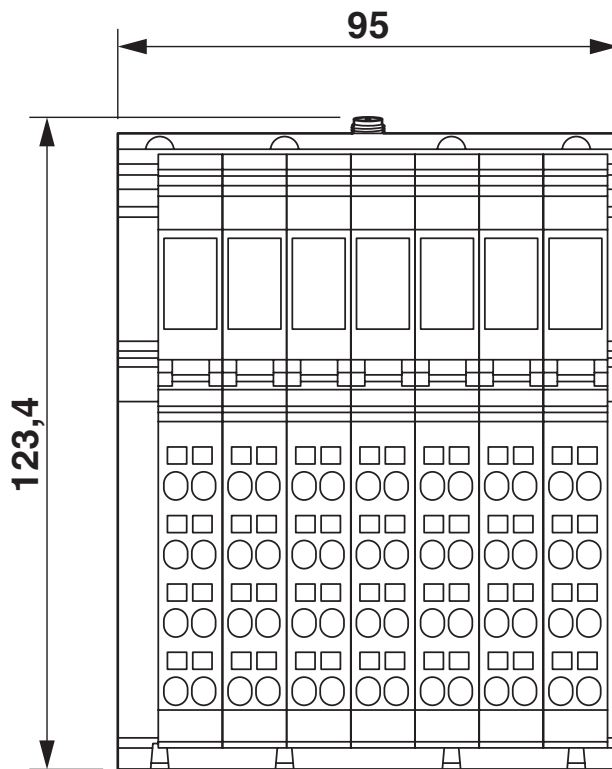
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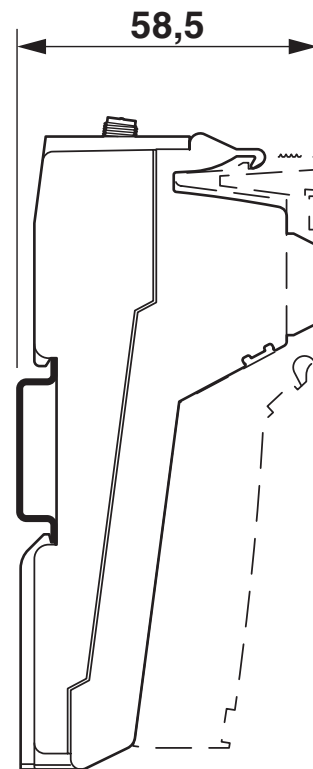


Drawings

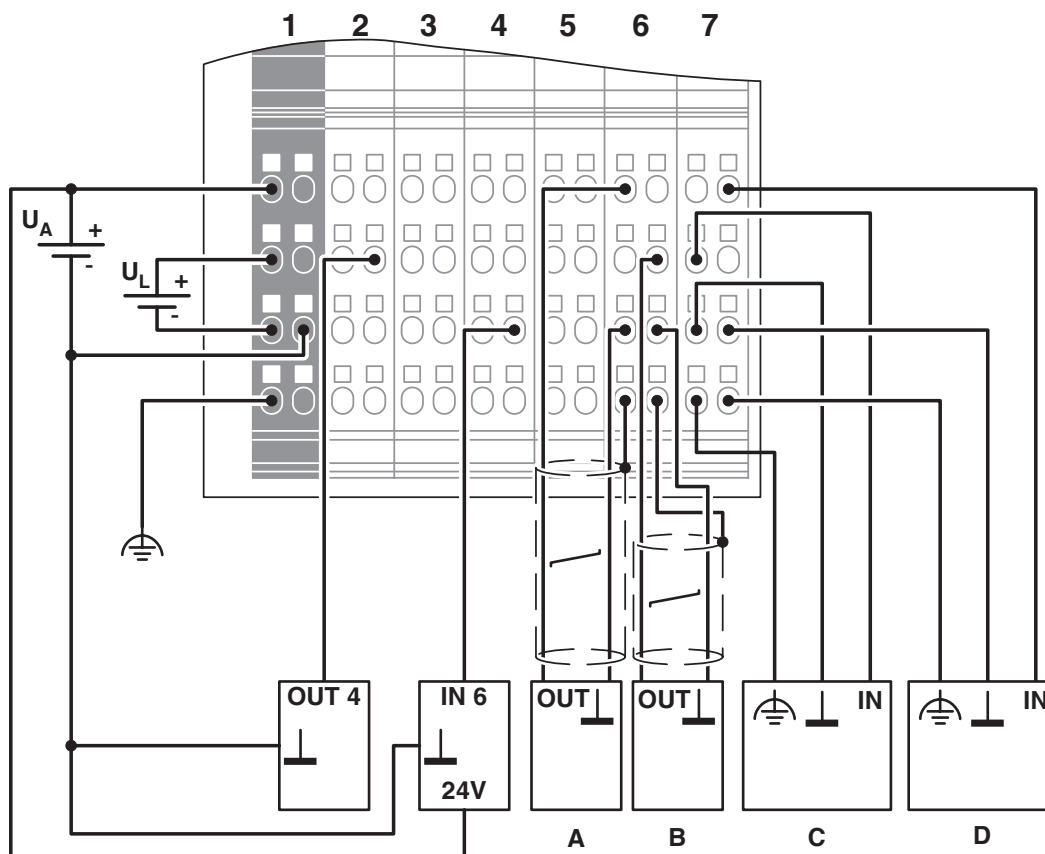
Dimensional drawing



Dimensional drawing



Connection diagram



Device connections

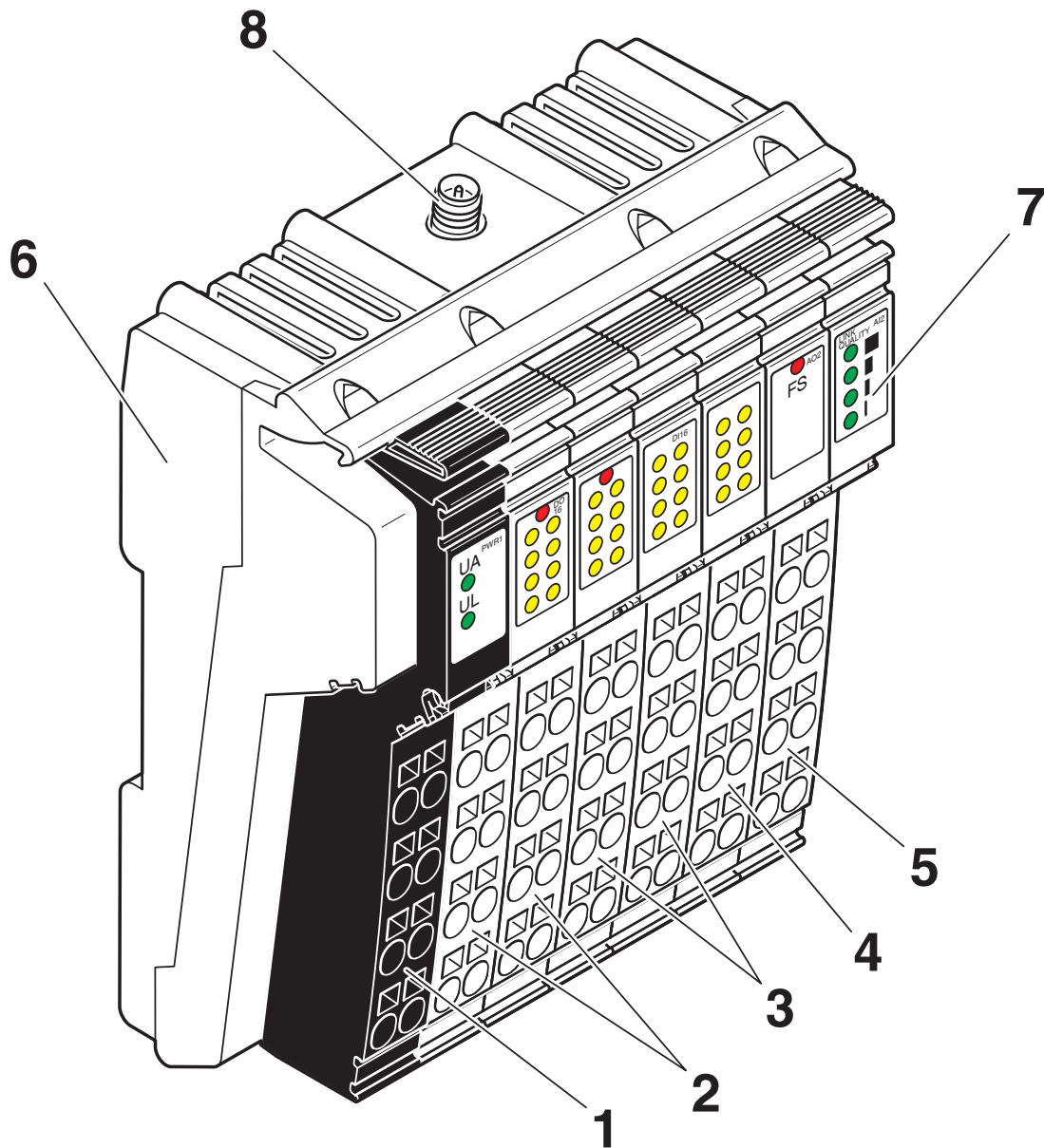
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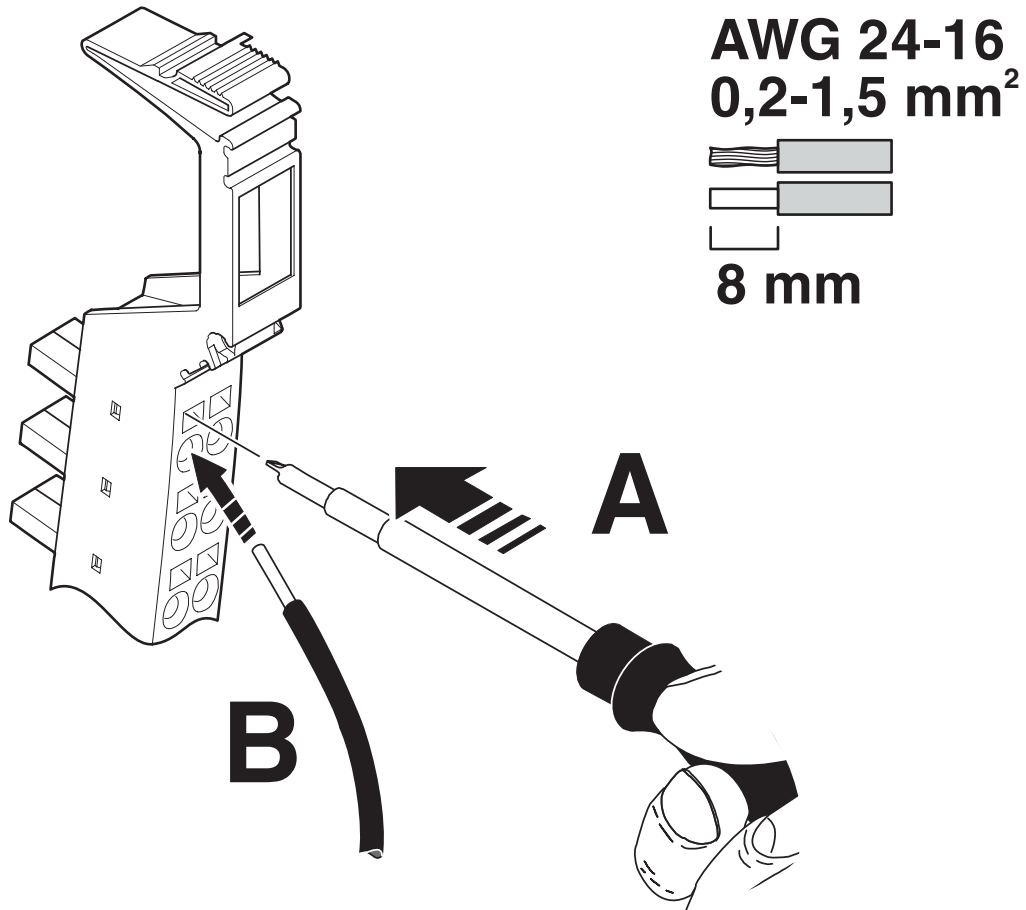


Schematic diagram



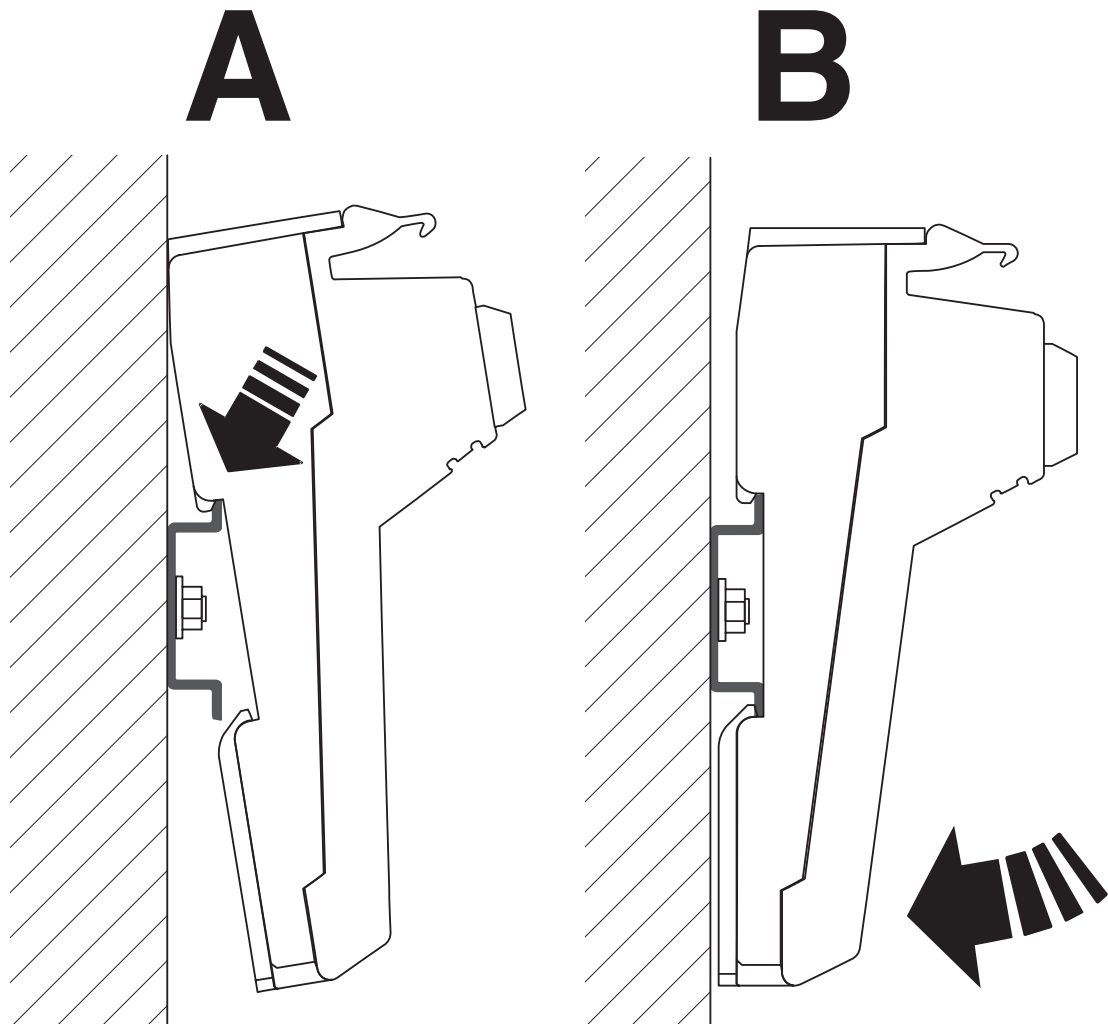
Function elements

Schematic diagram



Connecting cables

Schematic diagram

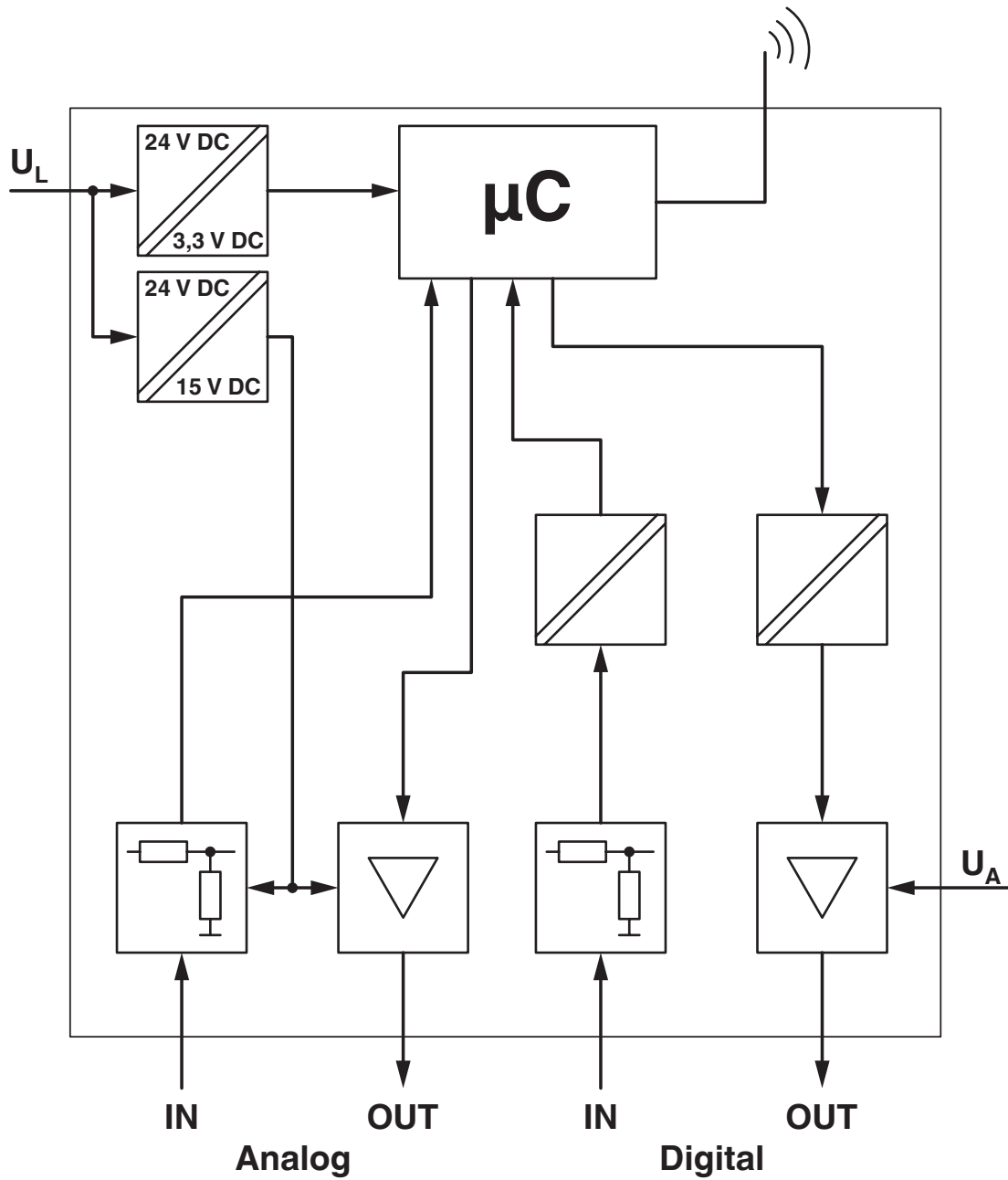


Mounting

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Block diagram



Basic circuit diagram

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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702875>



UL Listed

Approval ID: E140324



cUL Listed

Approval ID: E140324

FCC

Approval ID: YG3ADIOMUX

Industry Canada

Approval ID: 4720B-ADIOMUX



MIC

Approval ID: 202-LSF002

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Classifications

ECLASS

ECLASS-13.0	27242602
ECLASS-15.0	27242602

ETIM

ETIM 9.0	EC001597
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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.)	Lead(CAS: 7439-92-1)
SCIP	c231924d-cc82-48cf-a0b7-ccc5db945e37

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Accessories

IB IL SCN 6-SHIELD-TWIN - Inline shield connector

2740245

<https://www.phoenixcontact.com/us/products/2740245>

Inline shield connector



IB IL SCN-PWR IN-CP - Inline connector

2727637

<https://www.phoenixcontact.com/us/products/2727637>

Connector, colored, for Inline power and segment terminal blocks



IB IL SCN-8 - Inline connector

2726337

<https://www.phoenixcontact.com/us/products/2726337>

Connector, for digital 1, 2 or 8-channel Inline terminals



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IB IL FIELD 2 - Marking field

2727501

<https://www.phoenixcontact.com/us/products/2727501>

Marking field, width: 12.2 mm



EMT (62X10)R - Insert label

0800057

<https://www.phoenixcontact.com/us/products/0800057>



Insert label, for marking Inline modules from Phoenix Contact, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: insert, Number of individual labels: 500, text field height: 10 mm, text field width: 62 mm

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ZBFM 6/WH:UNBEDRUCKT - Flat zack marker sheet

0803618

<https://www.phoenixcontact.com/us/products/0803618>



Flat zack marker sheet, Sheet, white, unmarked, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 100, text field height: 5 mm, text field width: 5.5 mm

CLIPFIX 35-5 - End bracket

3022276

<https://www.phoenixcontact.com/us/products/3022276>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

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ANT-OMNI-2459-04 - Antenna

1284780

<https://www.phoenixcontact.com/us/products/1284780>



Multiband omnidirectional antenna for freely mobile applications, compact design, frequency band: 2.4 GHz / 5 GHz / 6 GHz, gain: 2.0 dBi / 2.5 dBi / 3.0 dBi, degree of protection: IP68/IP69K, shock- and vibration-resistant, connection: N (male)

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

2701362

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



Omnidirectional antenna for panel 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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RAD-ISM-2400-ANT-VAN-3-0-RSMA - Antenna

2701358

<https://www.phoenixcontact.com/us/products/2701358>



Omnidirectional antenna with protection against vandalism for control cabinet mounting, frequency band: 2.4 GHz, gain: 3 dBi, degree of protection: IP55, shockproof: IK08, connection: RSMA (male), incl. 1.5 m connecting cable

RAD-ISM-2459-ANT-FOOD-6-0-N - Antenna

2702898

<https://www.phoenixcontact.com/us/products/2702898>



Multiband omnidirectional antenna with protection against vandalism for control cabinet mounting, frequency band: 2.4 GHz / 5 GHz / 6 GHz, gain: 6 dBi / 8 dBi / 8 dBi, degree of protection: IP68, shockproof: IK08, resistant to cleaning agents, shock- and vibration-resistant, connection: N (female)

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ANT-OMNI-0671-02 - Antenna

1396318

<https://www.phoenixcontact.com/us/products/1396318>



Multiband omnidirectional antenna with protection against vandalism for control cabinet mounting, frequency band: 0.6 GHz ... 7.1 GHz, gain: 2 dBi ... 4 dBi, degree of protection: IP67, shockproof: IK10, seawater-resistant, connection: N (female)

ANT-OMNI-0671-01 - Antenna

1396316

<https://www.phoenixcontact.com/us/products/1396316>



Multiband omnidirectional antenna for wall or mast mounting, 0.6 GHz ... 7.1 GHz, gain: 1 dBi ... 3 dBi, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clamps

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RAD-ISM-2400-ANT-OMNI-6-0 - Antenna

2885919

<https://www.phoenixcontact.com/us/products/2885919>

Omnidirectional antenna for wall or mast mounting, 2.4 GHz, gain: 6 dBi, degree of protection: IP67, saltwater-resistant, shock- and vibration-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval



ANT-DIR-2459-01 - Antenna

2701186

<https://www.phoenixcontact.com/us/products/2701186>

Directional antenna for wall or mast mounting, 2.4 GHz / 5 GHz, gain: 9 dBi, degree of protection: IP67, shockproof: IK06, saltwater-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval



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RAD-PIG-EF316-N-RSMA - Antenna cable

2701402

<https://www.phoenixcontact.com/us/products/2701402>

Antenna cable for control cabinet feed-through, outside diameter: 3.2 mm (0.126 in.), inner conductor: stranded, attenuation: 0.6 / 0.9 / 1.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (female) -> RSMA (male), cable length: 0.5 m (1.6 ft.)



RAD-PIG-RSMA/N-0.5 - Antenna cable

2903263

<https://www.phoenixcontact.com/us/products/2903263>

Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.4 / 0.5 / 0.6 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 0.5 m (1.6 ft.)



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RAD-PIG-RSMA/N-1 - Antenna cable

2903264

<https://www.phoenixcontact.com/us/products/2903264>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 1 m (3.3 ft.)

NBC-COX-CNM/1.5-M/COX-CLM - Coaxial cable

1340133

<https://www.phoenixcontact.com/us/products/1340133>



Coaxial cable, 50 Ω , length: 1.5 m, N(m) - RSMA(m), external cable diameter: 4.9 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 0.7 dB, 2.4 GHz 1.1 dB, 5.8 GHz 1.8 dB, 7.25 GHz 2.1 dB

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RAD-PIG-RSMA/N-2 - Antenna cable

2903265

<https://www.phoenixcontact.com/us/products/2903265>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.9 / 1.3 / 2.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 2 m (6.5 ft.)

RAD-PIG-RSMA/N-3 - Antenna cable

2903266

<https://www.phoenixcontact.com/us/products/2903266>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 1.2 / 2.0 / 3.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 3 m (10 ft.)

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RAD-PIG-RSMA/N-5 - Antenna cable

2702140

<https://www.phoenixcontact.com/us/products/2702140>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 2.0 / 3.3 / 4.8 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 5 m (16 ft.)

NBC-COX-CNM/3.0-L/COX-CNM - Coaxial cable

1340123

<https://www.phoenixcontact.com/us/products/1340123>



Coaxial cable, 50 Ω , length: 3 m, N(m) - N(m), external cable diameter: 10.3 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 0.5 dB, 2.4 GHz 0.8 dB, 5.8 GHz 1.3 dB, 7.25 GHz 1.5 dB

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NBC-COX-CNM/5.0-L/COX-CNM - Coaxial cable

1340124

<https://www.phoenixcontact.com/us/products/1340124>



Coaxial cable, 50 Ω , length: 5 m, N(m) - N(m), external cable diameter: 10.3 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 0.8 dB, 2.4 GHz 1.4 dB, 5.8 GHz 2.2 dB, 7.25 GHz 2.5 dB

NBC-COX-CNM/10.0-L/COX-CNM - Coaxial cable

1340125

<https://www.phoenixcontact.com/us/products/1340125>



Coaxial cable, 50 Ω , length: 10 m, N(m) - N(m), external cable diameter: 10.3 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 1.6 dB, 2.4 GHz 2.7 dB, 5.8 GHz 4.3 dB, 7.25 GHz 5 dB

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NBC-COX-CNM/15.0-L/COX-CNM - Coaxial cable

1340126

<https://www.phoenixcontact.com/us/products/1340126>



Coaxial cable, 50 Ω , length: 15 m, N(m) - N(m), external cable diameter: 10.3 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 2.4 dB, 2.4 GHz 4.1 dB, 5.8 GHz 6.5 dB, 7.25 GHz 7.5 dB

NBC-COX-CNM/30.0-L/COX-CNM - Coaxial cable

1340127

<https://www.phoenixcontact.com/us/products/1340127>



Coaxial cable, 50 Ω , length: 30 m, N(m) - N(m), external cable diameter: 10.3 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 4.8 dB, 2.4 GHz 8.1 dB, 5.8 GHz 12.9 dB, 7.25 GHz 15 dB

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CN-UB-70DC-6-BB - Surge protection device

2803166

<https://www.phoenixcontact.com/us/products/2803166>



Attachment plug with surge protection for coaxial signal interfaces. Connection: N connector, female/female

RAD-ADP-N/F-N/F - Adapter

2867843

<https://www.phoenixcontact.com/us/products/2867843>



Antenna adapter for control cabinet feed-through, frequency range: 0.3 GHz ... 6 GHz, degree of protection: IP65, connection: 2 x N (female)

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RAD-ADP-RSMA/M-RSMA/F-90 - Adapter

2904790

<https://www.phoenixcontact.com/us/products/2904790>



Antenna adapter, frequency range: 0.3 GHz ... 6 GHz, connection: RSMA (male)
-> RSMA (female), 90° angled

RAD-TAPE-SV-19-3 - Weather protection tape

2903182

<https://www.phoenixcontact.com/us/products/2903182>



Vulcanizing sealing tape for external protection of adapters, cable connections,
etc. against the effects of weather, roll length: 3 m

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com