

2313805

https://www.phoenixcontact.com/au/products/2313805

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Bluetooth converter, wireless transmission: RS-232/RS-422/RS-485 2-wire, mounting on EN DIN rails, MCX connection for external antenna, integrated path diagnostics: bar graph + two digital outputs

### Product description

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

## Your advantages

- Installation of parallel wireless paths by cross-wiring 24 V DC and RS-485
- Transceiver for distances of up to 150 m
- Can be used for RS-232/RS-422/RS-485 2-wire interfaces up to 187.5 kbps
- · Coexistence with other wireless systems due to the adaptive frequency hopping (AFH) method
- · Local configuration via USB interface without separate power supply unit
- Multipoint with up to seven slaves
- · Secure and tamper-proof data transmission thanks to password protection, encryption, plus fixed and invisible device pairing
- · Wireless path diagnostics using integrated bar graphs and 2 digital outputs
- Suitable for worldwide use thanks to adjustable transmission power (-28 ... 14 dBm)

#### Commercial data

Item number	2313805
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC661
Product key	DNC661
Catalog page	Page 508 (C-8-2015)
GTIN	4046356567572
Weight per piece (including packing)	195.4 g
Weight per piece (excluding packing)	195.4 g
Customs tariff number	85176200
Country of origin	DE



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## Technical data

### Product properties

Product type	Interface converter
MTTF	2115 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	850 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	346 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
MTBF	1153 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	262 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))

### Electrical properties

Electrical isolation	VCC // Bluetooth, RS-232, RS-422, RS-485, USB
Maximum power dissipation for nominal condition	2.4 W
Test voltage data interface/power supply	1.5 kV AC (50 Hz, 1 min.)

### Supply

Supply voltage range	10 V DC 30 V DC (via pluggable COMBICON screw terminal block)
	19 V AC 29 V AC (50/60 Hz)
Nominal supply voltage	24 V DC ±20 % (as an alternative or redundant, via backplane bus contact and system current supply)
Typical current consumption	≤ 100 mA (24 V DC)

## Output data

#### Signal

Output name	Digital outputs
Number of outputs	2

### Connection data

### Supply

Tightening torque 0.56 Nm 0.79 Nm
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### Interfaces

Signal	Modbus
	PROFIBUS

#### Data: V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1

Serial transmission speed	1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115. 2 kbps
Connection method	D-SUB 9 plug
Pin assignment	DCE (Data Communication Equipment)



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Transmission length	≤ 15 m
File format/coding	Serial asynchronous UART/NRZ, 8 data, 1/2 stop, 1 parity, 10/11-bit character length
Data flow control/protocols	Software handshake, Xon/Xoff, or hardware handshake RTS/CTS, 3964 compatible
ata: RS-422 interface in acc. with ITU-T V.11, EIA/TIA	A-422, DIN 66348-1
Serial transmission speed	1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2; 136; 187.5 kbps
Connection method	Pluggable screw connection
Transmission length	≤ 1200 m
Termination resistor	390 Ω (configurable)
	180 Ω
	390 Ω
File format/coding	Serial asynchronous UART/NRZ, 8 data, 1/2 stop, 1 parity, 10/11-bit character length
Data flow control/protocols	Automatic control
ata: RS-485 interface, in acc. with EIA/TIA-485, DIN 6	86259-4/RS-485 2-wire
Serial transmission speed	1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2;
ochai transmission specu	136; 187.5 kbps
Connection method	Pluggable screw connection
Transmission length	≤ 1200 m
Termination resistor	390 Ω (configurable)
	180 Ω
	390 Ω
File format/coding	Serial asynchronous UART/NRZ, 8 data, 1/2 stop, 1 parity, 10/11-bit character length
Data flow control/protocols	Automatic control
ata: USB 2.0	
Connection method	Mini-USB B, socket
	711 711 11
/ireless	
Interface description	Bluetooth 2.1 + EDR
Operating mode	GAP: Generic Access Profile (Method for authentication and connection establishment)
	SDAP: Service Discovery Application (Method for requesting supported services)
	SPP: Serial Port Profile (COM port emulation method)
	DUN: Dial-Up Networking Profile (Modem dialing method)
	LAP: LAN Access Point Profile (Network connection method)
Frequency range	2.402 GHz 2.48 GHz (ISM bandwidth)
Transmission method	1.6 kHz (FHSS)
Channel distance	1 MHz
Transmit capacity, minimum	0 dBm
Transmit capacity, maximum	14 dBm (Outside of Europe, adjustable via software)
	10 dBm (Europe, can be set via software)



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	10 dBm (Default setting, adjustable)
Minimum receiver sensitivity	-91 dBm
Antenna	External
Connection method	MCX socket
Bluetooth Multidrop master/slave	1/7
Country support	Switzerland
	Turkey (The device may only be operated with Phoenix Contact antennas in accordance with the "Short Range Radio Devices (SRD) Regulations" Gazette No. 26464 dated March 16, 2007.)
	USA
	Belarus (Maximum transmission power of 25 mW (14 dBm) outside of buildings)
	South Korea

### **Dimensions**

Dimensional drawing	22.5
Width	22.5 mm
Height	99 mm
Depth	116 mm

# Material specifications

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

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)

## Approvals

#### UL USA/Canada

UL, USA/Canada	
Identification	508 Listed
Corrosive gas test	



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### EMC data

Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with R&TTE directive 1999/5/EC
Noise emission	EN 55011
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electronic Conference	
Electrostatic discharge	1012/
Contact discharge  Discharge in air	± 6 kV ± 8 kV
Comments	Criterion B
Odifficities	Citation
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz 3 GHz
Field intensity	10 V/m
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
5	
Fast transients (burst)	± 2 kV
Input Signal	± 2 kV
Comments	Criterion B
Comments	CIRCIOILE
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Surge current load (surge)	
Input	± 2 kV
Signal	± 1 kV
Comments	Criterion B
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Comments	Criterion A
Voltage	10 V
Emitted interference	
Standards/regulations	EN 55032

Standards and regulations



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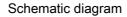
Free from substances that could impair the application of coating	in accordance with VW-AUDI-Seat central standard P-VW 3.10.7 57 65 0
Standards/regulations	FCC Part 15.247 / ISC RSS 210
Marie	
Mounting	

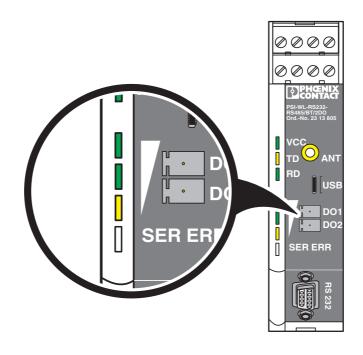


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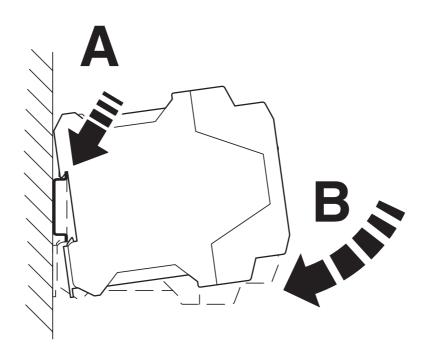
# **Drawings**





Diagnostic and status indicators

Schematic diagram



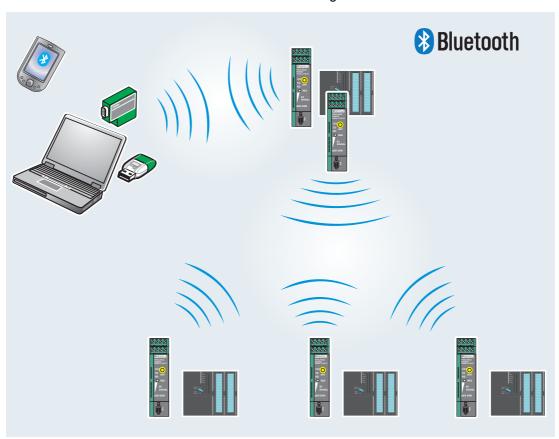
Mounting



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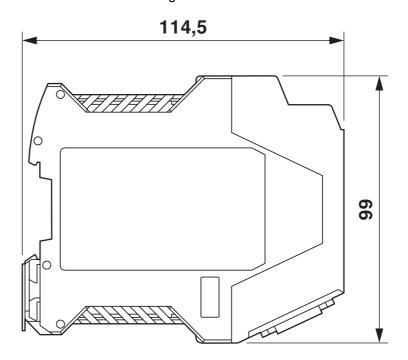
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### Functional drawing



## Dimensional drawing



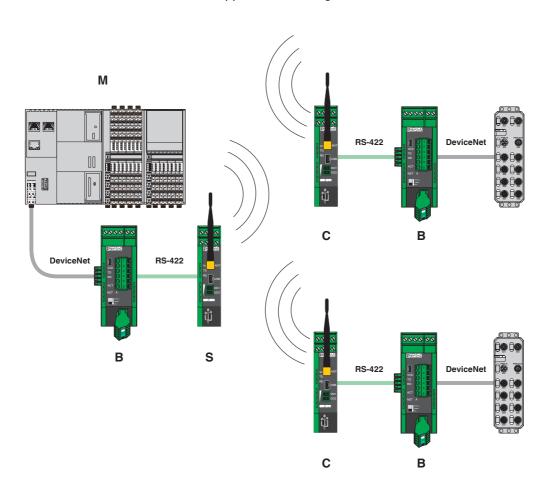




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## Application drawing



Example application



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# Environmental product compliance

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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