PSI-GPRS/GSM-MODEM/RS232-QB - Modem

2313106

https://www.phoenixcontact.com/us/products/2313106

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Industrial GPRS/GSM modem for mounting on EN DIN rails. GSM and GPRS. 850 + 900 + 1800 + 1900 MHz. Serial V.24 (RS-232) interface. TCP/IP stack. Alarm input and output. 24 V DC supply voltage.

Your advantages

- Fixed latency
- High electromagnetic compatibility
- Can be used worldwide
- Can be used regardless of controller manufacturer
- Firewall
- One switching output on backplane, can be activated via SMS with password protection
- Encryption of SIM card PINs
- Connection establishment with password protection
- GSM mobile phone network: 850, 900, 1800, and 1900 MHz
- IPT-compatible
- Integrated TCP/IP stack for integrating devices without a TCP/IP stack into a network
- Data rates of up to 53.6 kbps
- Connection establishment via data phone number (CSD)
- Client/server functionality
- Connection establishment via IP addresses

Commercial data

Item number	2313106
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN25
Product key	DNC421
GTIN	4046356166034
Weight per piece (including packing)	182.6 g
Weight per piece (excluding packing)	182.6 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.

Product properties

Product type	Modem

Insulation characteristics

Degree of pollution	2

Electrical properties

Electrical isolation	VCC // RS-232 // GSM
Maximum power dissipation for nominal condition	8.4 W
Mains type	Cellular communication
Test voltage data interface/power supply	1.5 kV (50 Hz, 1 min.)
Test voltage data interfaces	1500 V

Supply

Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Nominal supply voltage	24 V DC ±5 % (as an alternative or redundant, via backplane bus contact and system current supply)
Typical current consumption	< 350 mA (24 V DC)
	< 80 mA (stand by)

Input data

Digital

Description of the input	Digital input
Number of inputs	2
Voltage input signal	9 V DC ... 60 V DC
Current input signal	5 mA

Output data

Signal

Output name	Digital output
Number of outputs	1
Voltage output signal	10 V DC ... 30 V DC
Current output signal	≤ 80 mA (24 V)

Connection data

Supply

Tightening torque	0.56 Nm ... 0.79 Nm

Interfaces

Signal	RS-232

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

Transmission speed	1.2/2.4/9.6/19.2/38.4/57.6/115.2 kbps (can be set manually and automatically)
Connection method	D-SUB 9 plug
Transmission length	15 m
File format/coding	Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length
Data flow control/protocols	Software handshake, Xon/Xoff or hardware handshake RTS/CTS

Wireless

Interface description	GSM / GPRS
Frequency range	850 MHz (2 W (EGSM))
	900 MHz (2 W (EGSM))
	1800 MHz (1 W (EGSM))
	1900 MHz (1 W (EGSM))
Data rate	≤ 85.6 kbps
Antenna	50 Ω impedance SMA antenna socket
SIM Interface	1.8 volt, 3 volt
GSM	CSD 9.6/14.4 kbps
GPRS	Class 10, Class B
	CS1 ... CS4
Network function	4 time slots for receiving data, 2 time slot for transmitting data. The PIN is saved in the modem. After a voltage interruption, there is automatic redialing into the network Integrated TCP/IP Stack, independent connection establishment.
Network check	LED to show data signal quality

Dimensions

Width	22.5 mm
Height	99 mm
Depth	118.6 mm

Material specifications

Material (Housing)	PA V0

Mechanical tests

Free fall in accordance with IEC 60068-2-32	: 1 m
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	: 5g in each space direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	: Operation: 15g, 11 ms period, half-sine shock pulse
	: Storage: 30g, 11 ms period, half-sine shock pulse

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
	≤ 2000 m (in acc. with UL)

Approvals

CE

Certificate	CE-compliant

UL, USA/Canada

Identification	508 Listed
	Class I, Zone 2, AEx nA IIC T4
	Class I, Zone 2, Ex nA IIC T4 Gc X

Corrosive gas test

Identification	ISA-S71.04-1985 G3 Harsh Group A

EMC data

Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
Noise immunity	EN 61000-6-2:2005

Noise emission

Standards/regulations	EN 55032

Electrostatic discharge

Standards/regulations	EN 61000-4-2

Electrostatic discharge

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

Electromagnetic HF field

Standards/regulations	EN 61000-4-3

Electromagnetic HF field

Frequency range	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	± 1 kV (Test Level 3)
Comments	Criterion B

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
Comments	Class A, industrial applications

Criteria

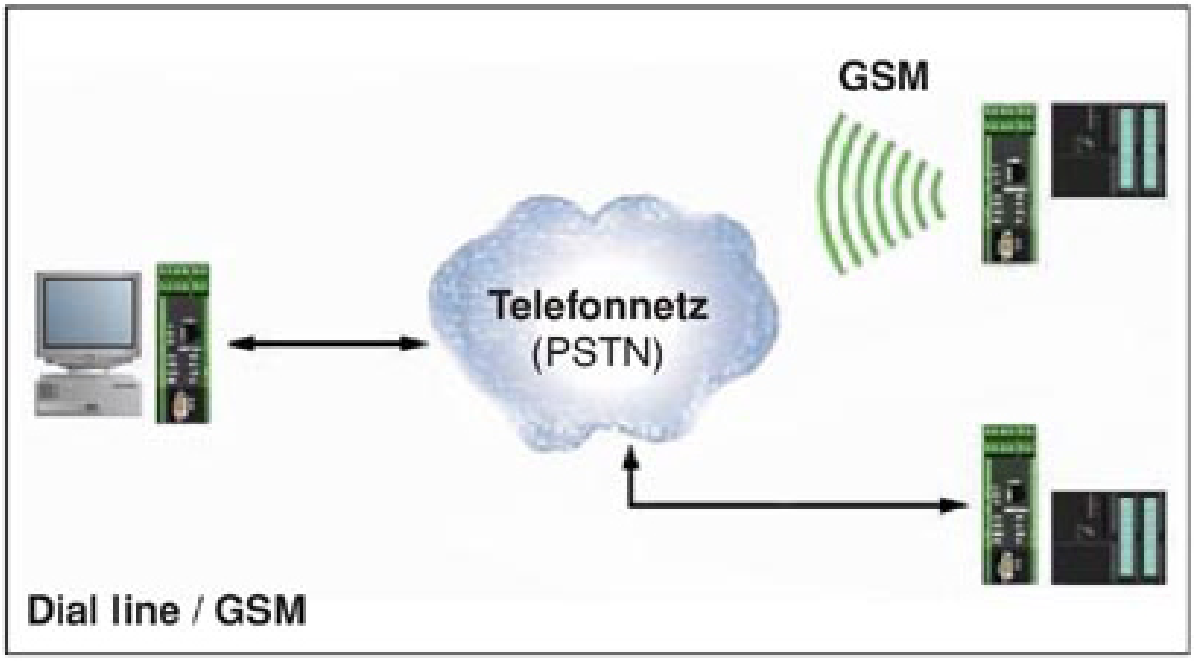
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

Mounting

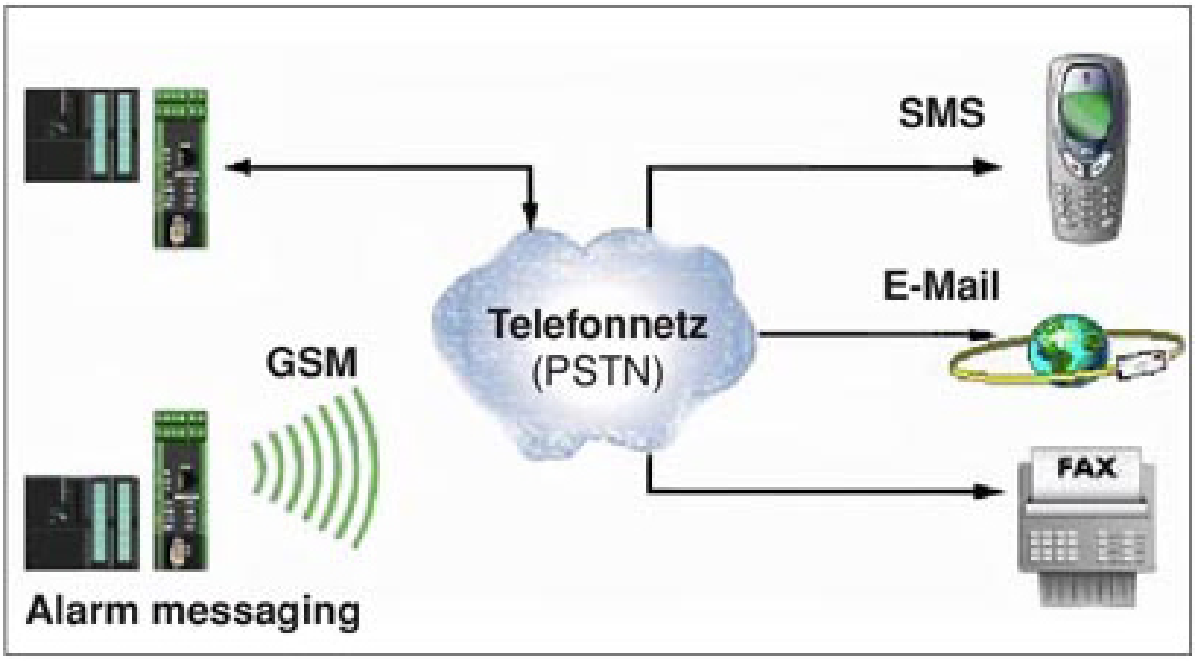
Mounting type	DIN rail mounting

Drawings

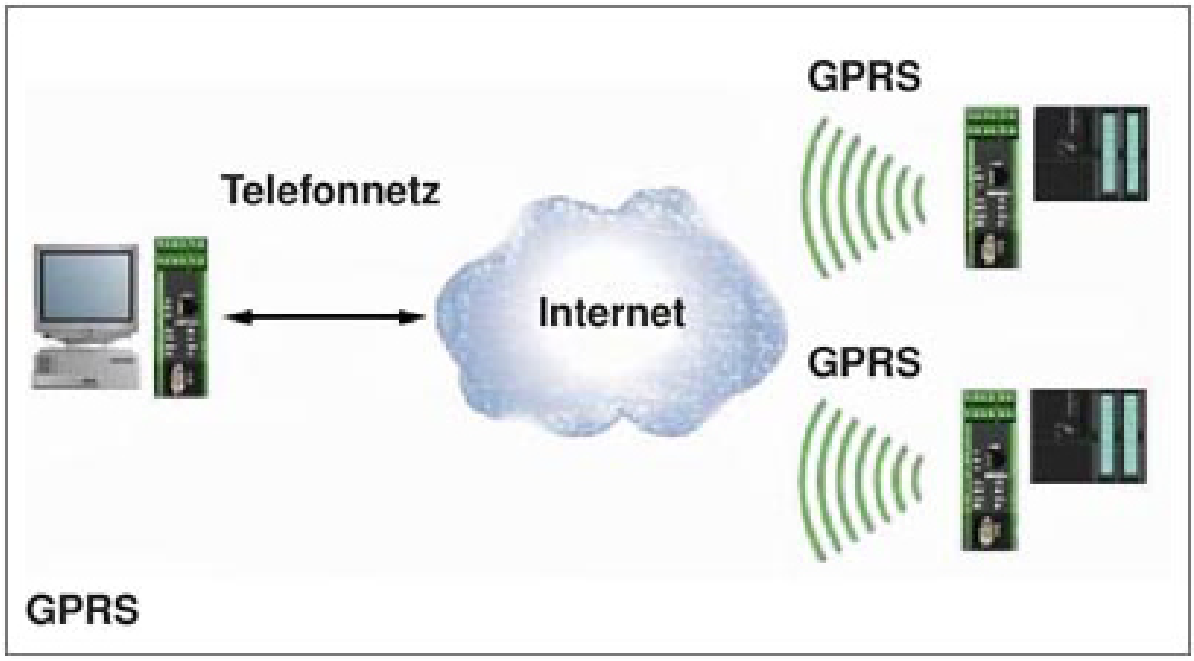
Application drawing



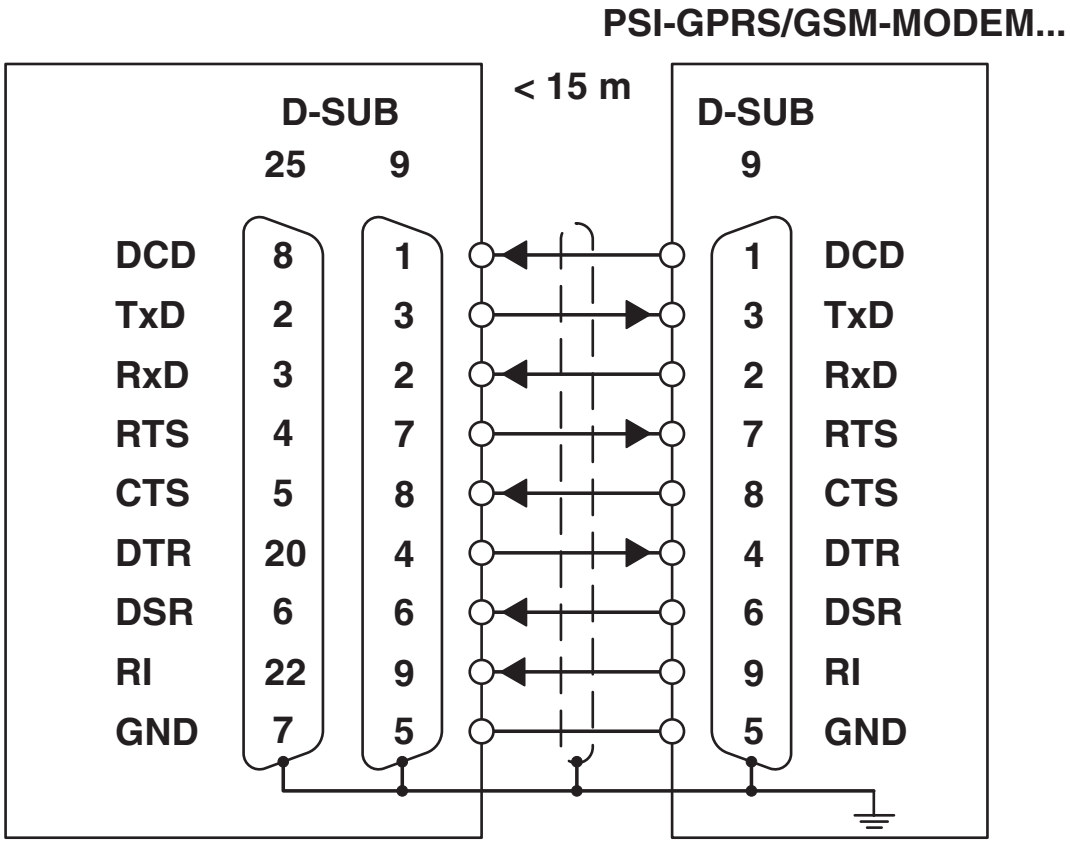
Application drawing



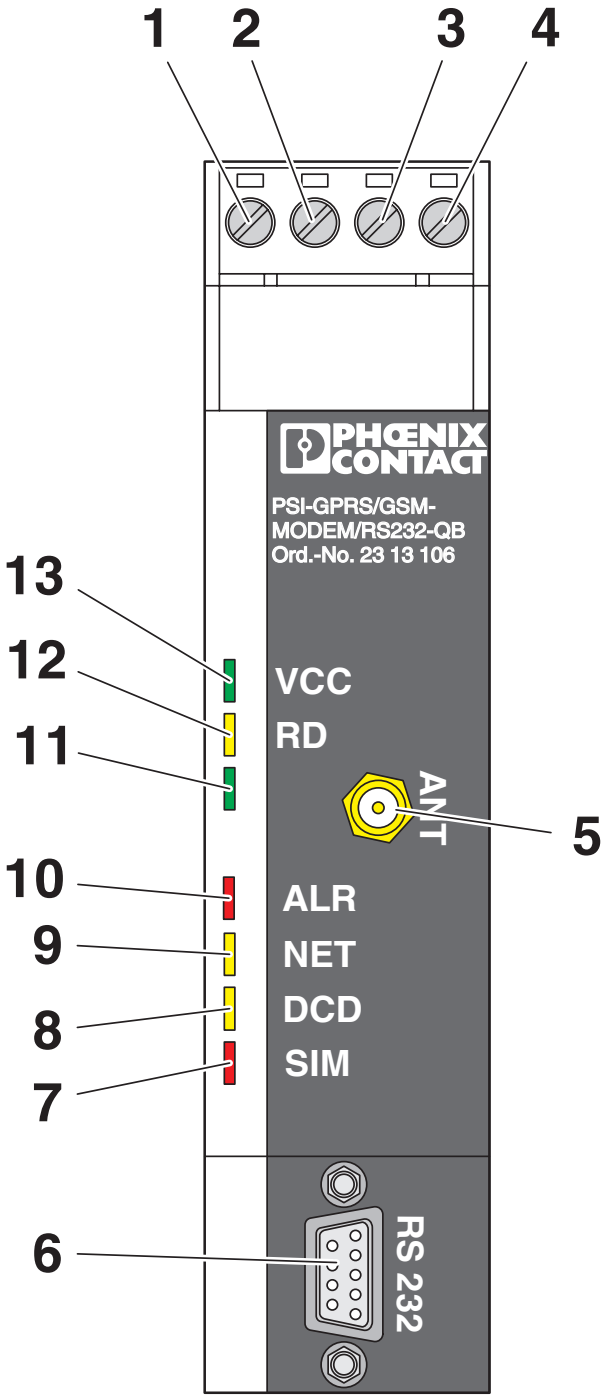
Application drawing



Connection diagram

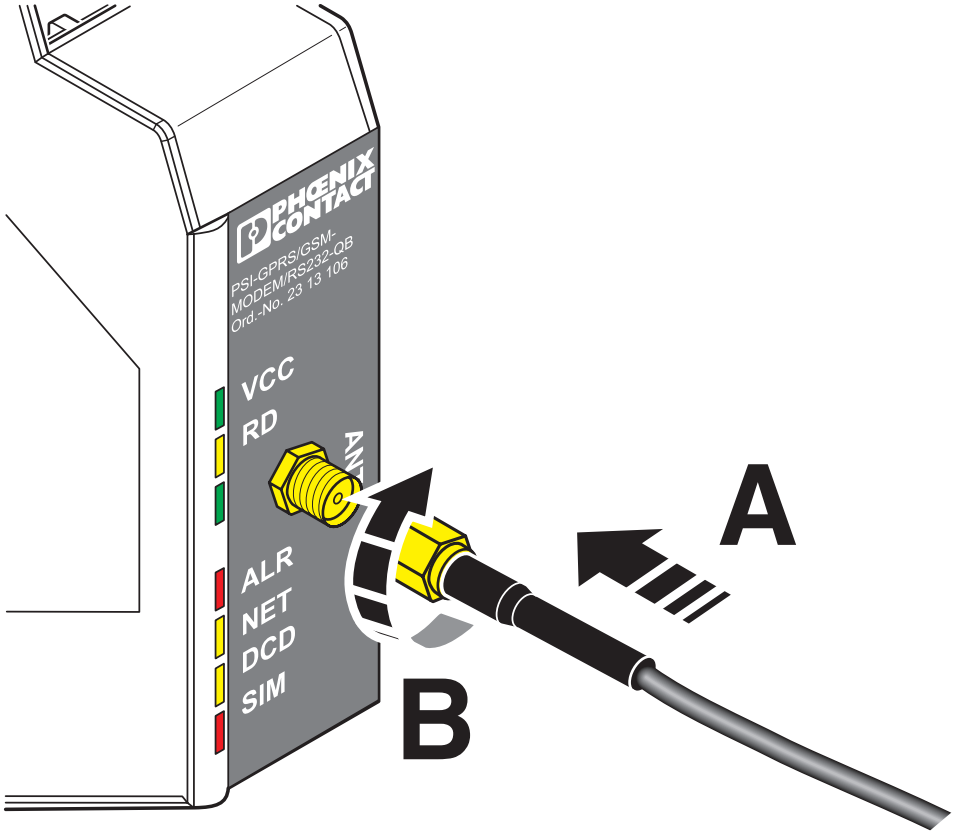


Schematic diagram



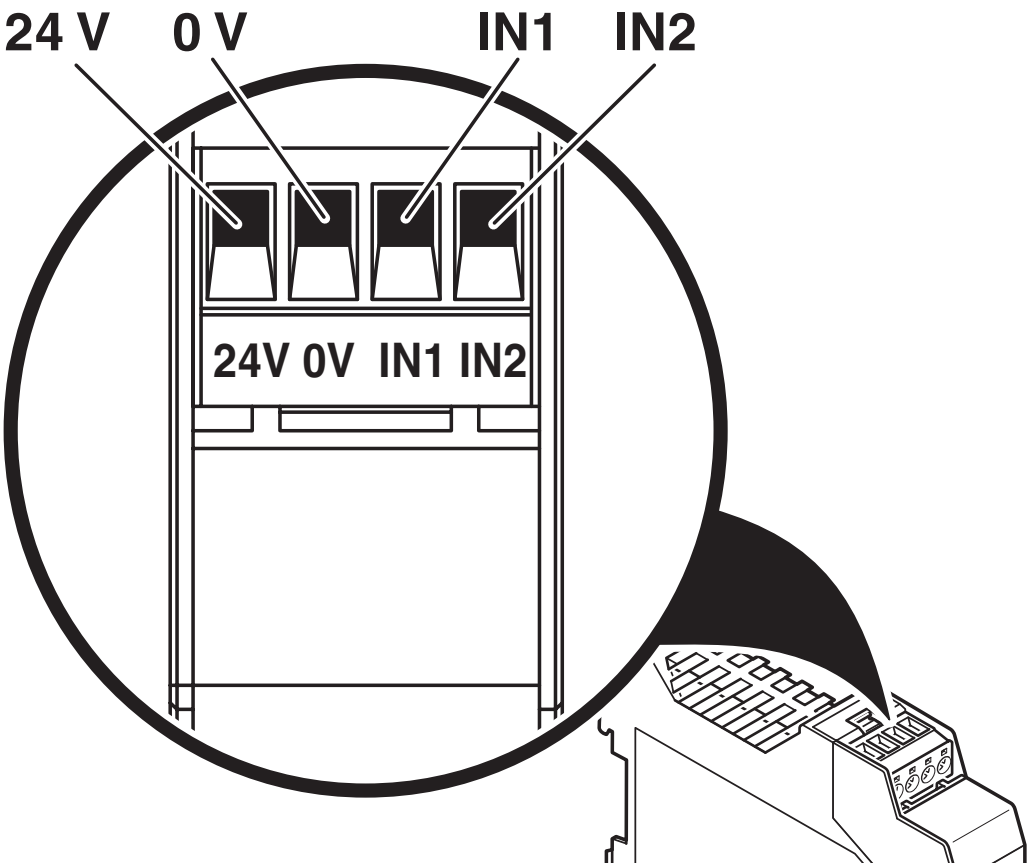
Front view

Schematic diagram



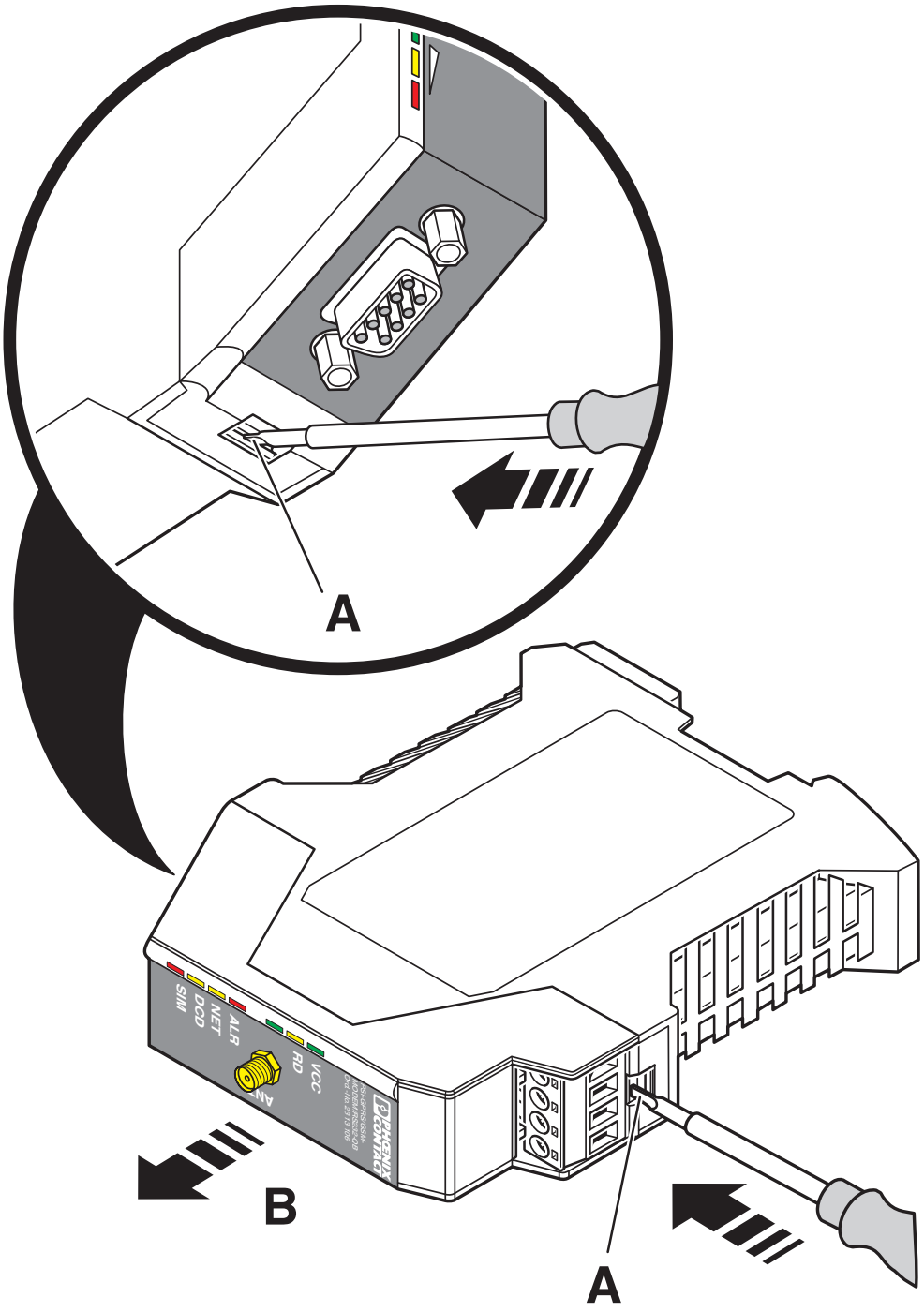
Connect the antenna

Schematic diagram



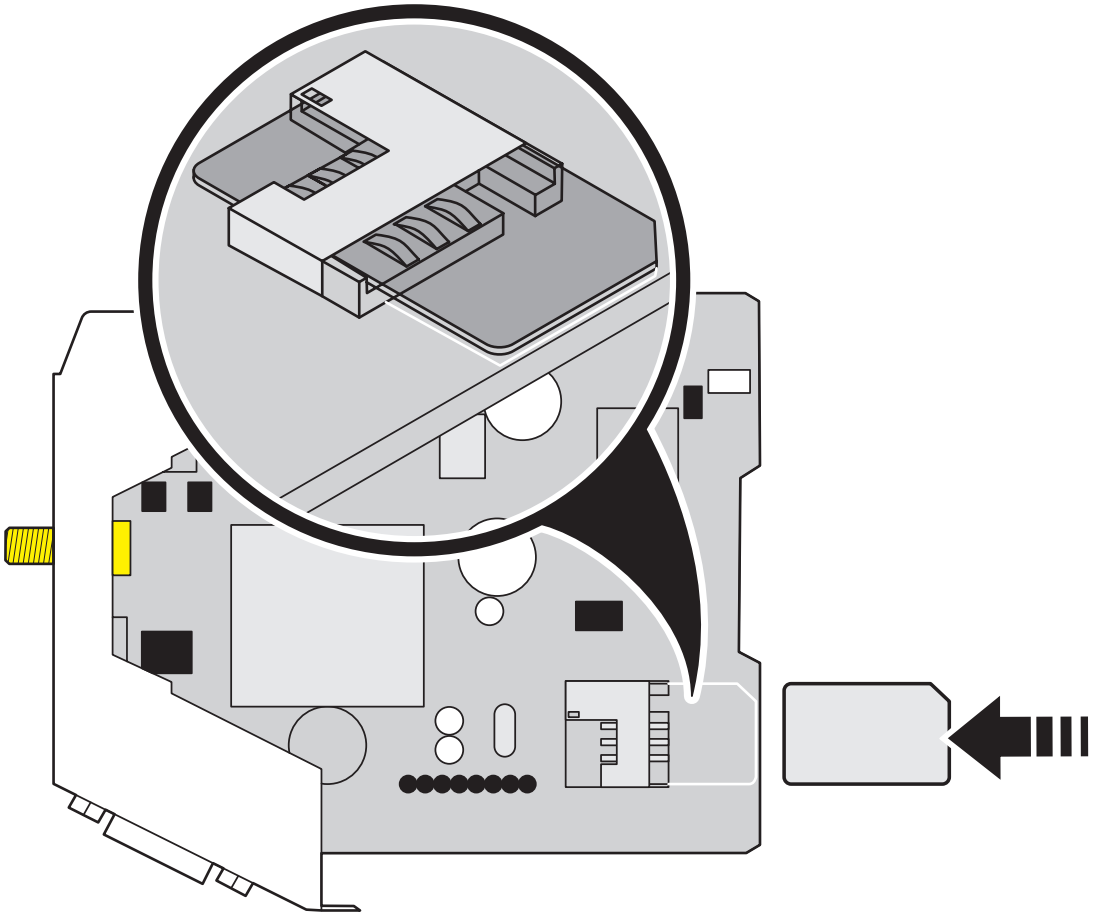
Device connections

Schematic diagram



Opening the housing

Schematic diagram



Insert the SIM card

Classifications

UNSPSC

UNSPSC 21.0	43222628

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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)

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