

PSI-MODEM-3G/ROUTER - Router



2314008

<https://www.phoenixcontact.com/us/products/2314008>

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Industrial UMTS/GSM router (850, 900, 1800, 1900, 2100 MHz) with Ethernet interface. Firewall, NAT and IPsec VPN support. SMA-F female antenna connector. Sending via SMS. 6 digital inputs, 4 digital outputs. Configuration via web-based management.

Your advantages

- Configuration via web-based management
- Up to 3 VPN tunnels simultaneously
- Starting of VPN via call
- High electromagnetic compatibility
- Starting of VPN via SMS
- Authentication with X.509 certificates
- Connection monitoring
- Encryption of both SIM card PINs
- Firewall
- NAT table
- 10/100 Mbps
- Autocrossing
- UMTS mobile phone network: 850, 1900, and 2100 MHz
- GSM mobile phone network: 850, 900, 1800, and 1900 MHz
- Connection establishment via IP addresses

Commercial data

Item number	2314008
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN25
Product key	DNC422
GTIN	4046356594387
Weight per piece (including packing)	321.6 g
Weight per piece (excluding packing)	200 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Product properties

Product type	Cellular router
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Security functions

1:1 Network Address Translation (NAT) in the VPN	supported
Number of VPN tunnels	3
Authentication	X.509v3, PSK
Data integrity	MD5, SHA-1
Dynamic Host Configuration Protocol (DHCP) support	Server
Filtering	IP, port, protocol
Firewall rules	Stateful inspection firewall
Internet Protocol Security (IPsec) mode	ESP tunnel
Network Time Protocol (NTP) client	Client/server
Remote Syslog Logging	on external server
Encryption methods	3DES, AES-128, -192, -256

Electrical properties

Electrical isolation	VCC // UMTS // Ethernet // PE
Maximum power dissipation for nominal condition	4 W
Mains type	Cellular communication
Test voltage data interface/data interface	1 kV (50 Hz, 1 min.)
Test voltage data interface/power supply	1 kV (50 Hz, 1 min.)

Supply

Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Typical current consumption	< 200 mA (24 V DC)
	< 90 mA (stand by)
Max. current consumption	< 800 mA (At 10 V DC (incl. 4x 50 mA for the outputs))

Function

Management	Web-based management, SNMP
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Input data

Digital

Description of the input	Digital input
Number of inputs	6
Voltage input signal	10 V DC ... 30 V DC

Output data

Signal

Output name	Digital output
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Number of outputs	4
Voltage output signal	10 V DC ... 30 V DC (depending on the operating voltage)
Current output signal	≤ 50 mA (Short-circuit-proof)

Connection data

Supply

Tightening torque	0.56 Nm ... 0.79 Nm
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Interfaces

Signal	Ethernet
Web server	yes

Data: Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3

Serial transmission speed	10/100 Mbps, auto negotiation
Connection method	RJ45 jack, shielded
No. of channels	1
Transmission length	100 m (shielded twisted pair)
Protocols supported	TCP/IP, UDP/IP, FTP, HTTP
Auxiliary protocols	ARP, DHCP, PING (ICMP), SNMP V1, SMTP

Wireless

Interface description	GSM / GPRS / EDGE
Frequency	850 MHz (2 W (EGSM))
	900 MHz (2 W (EGSM))
	1800 MHz (1 W (EGSM))
	1900 MHz (1 W (EGSM))
	850 MHz (0.25 W (UMTS))
	1900 MHz (0.25 W (UMTS))
	2100 MHz (0.25 W (UMTS))
Transmission power	0.25 W
Data rate	≤ 7.2 Mbps (HSDPA)
	≤ 5.7 Mbps (HSUPA)
Antenna	50 Ω impedance SMA antenna socket
Antenna connection method	SMA (female)
SIM Interface	1.8 volt, 3 volt
	1.8 volt, 3 volt
GPRS	Class 12, Class B
	CS1 ... CS4
EDGE	Multislot Class 10
UMTS	HSPA 3GPP R6
Network function	4 time slots for receiving data, 4 time slots 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, firewall and VPN support, independent connection establishment.
Network check	LED bar graph to display receive quality

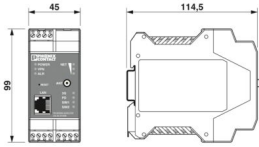
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Dimensions

Dimensional drawing	
Width	45 mm
Height	99 mm
Depth	114.5 mm

Material specifications

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

Mechanical tests

Free fall in accordance with IEC 60068-2-32	Free fall: 1 m
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	Vibration (operation): 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Shock (operation): Operation: 15g, 11 ms period, half-sine shock pulse
	Shock (storage/transport): 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 ... 65 °C (not aligned)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant
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UL, USA/Canada

Identification	508 Listed
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Corrosive gas test

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

Electromagnetic compatibility	Conformance with R&TTE directive 1999/5/EC
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Noise immunity	EN 61000-6-2
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Contact discharge	± 4 kV (Test Level 3)
Discharge in air	± 8 kV (Test Level 3)
Comments	Criterion B
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 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	± 1 kV (Test Level 3)
Signal	± 1 kV (Ethernet and antenna)
Comments	Criterion B
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Surge current load (surge)	
Input	± 1 kV (symmetrical) ± 2 kV (asymmetrical)
Signal	± 1 kV (Data line, asymmetrical) ± 1 kV (Antenna)
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	
Radio interference voltage in acc. with EN 55011	Class B, area of application: Industry and residential
Emitted radio interference in acc. with EN 55011	Class B, area of application: Industry and residential

Mounting

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Mounting type	DIN rail mounting
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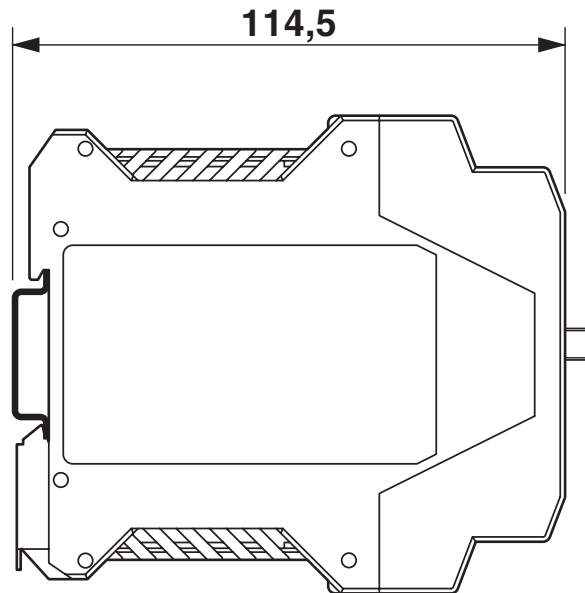
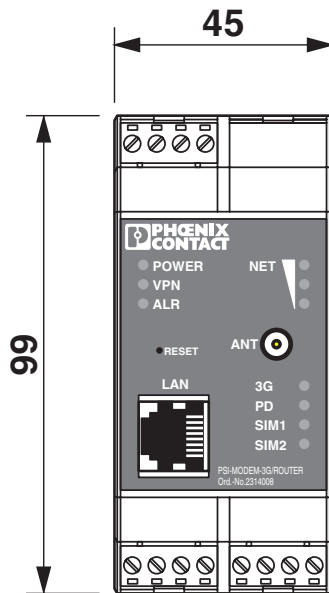


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Drawings

Dimensional drawing



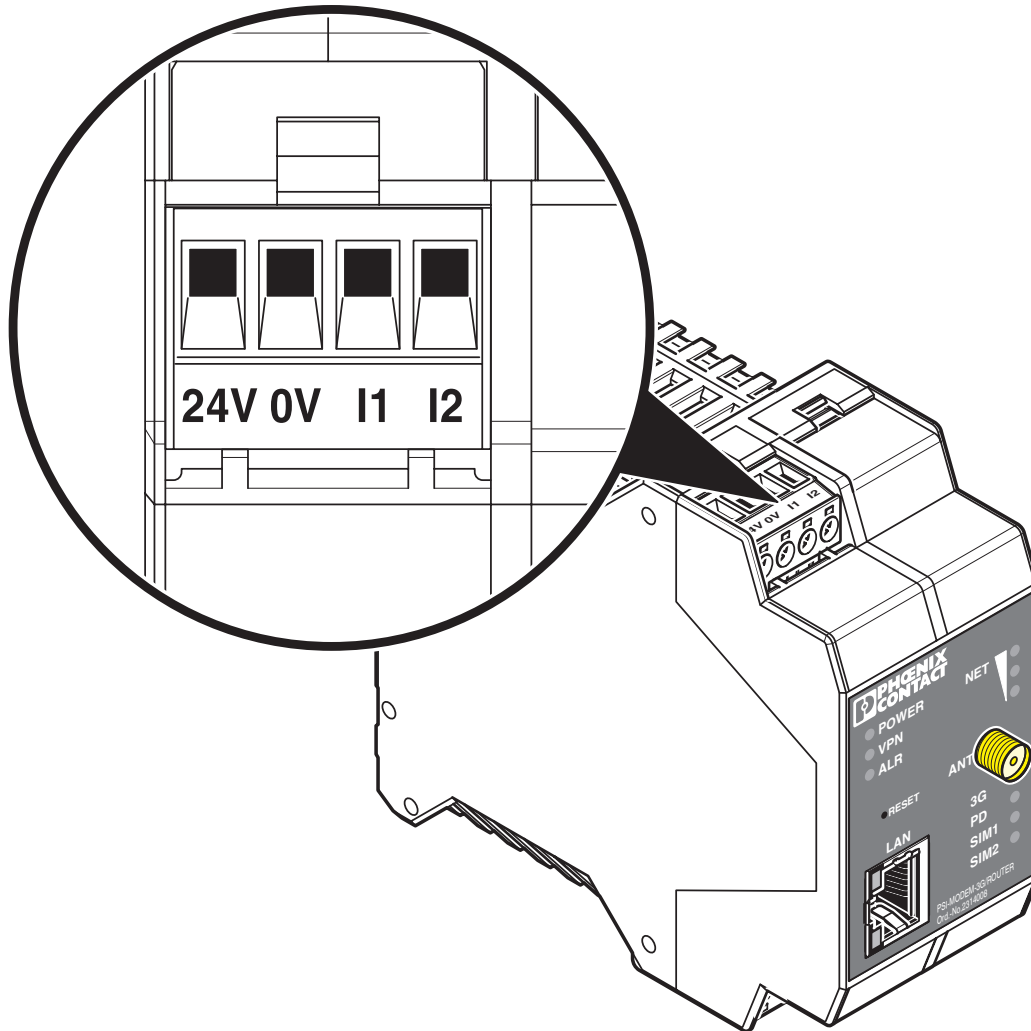
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Connection diagram

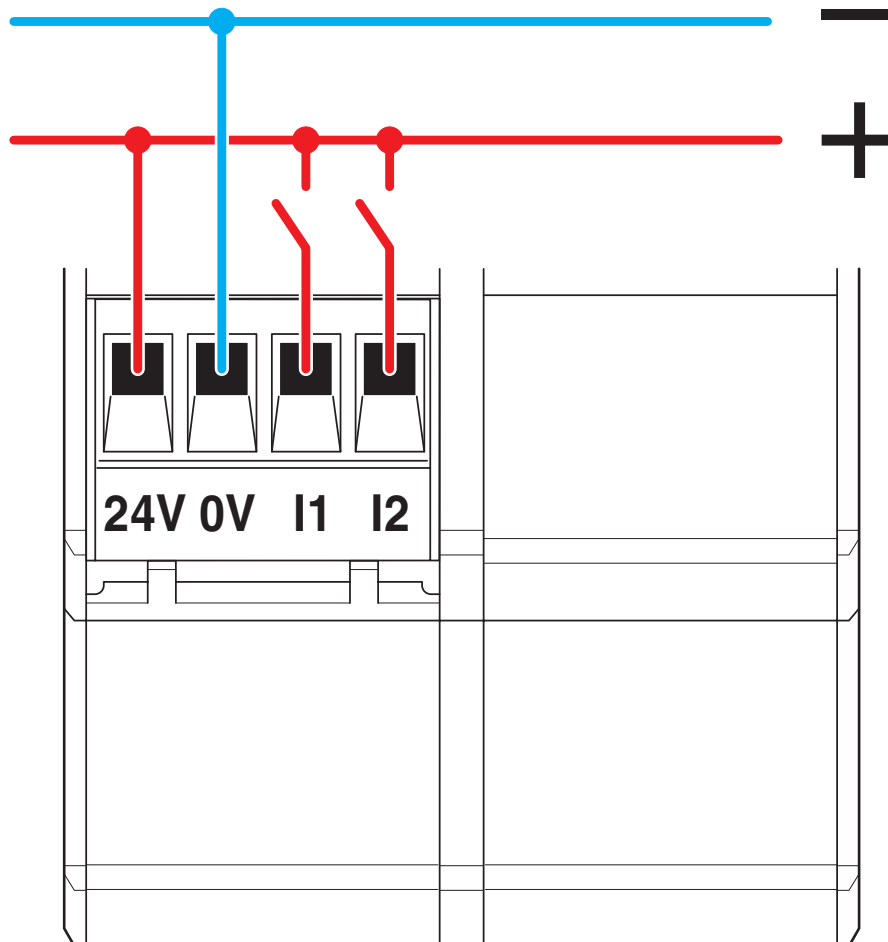


Device connections

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Connection diagram



Switching inputs

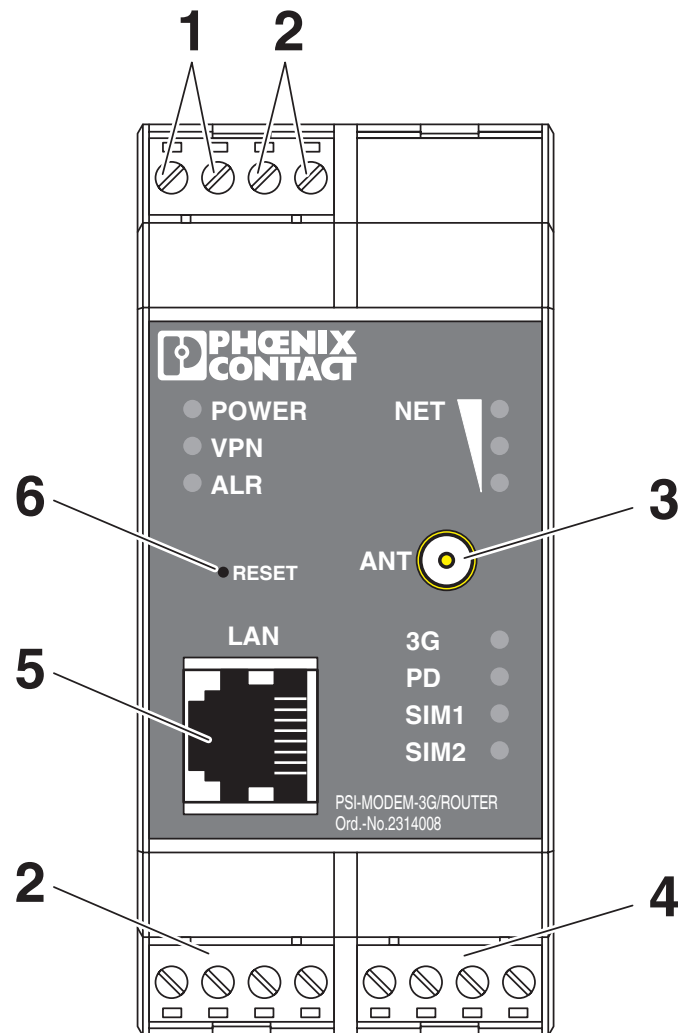
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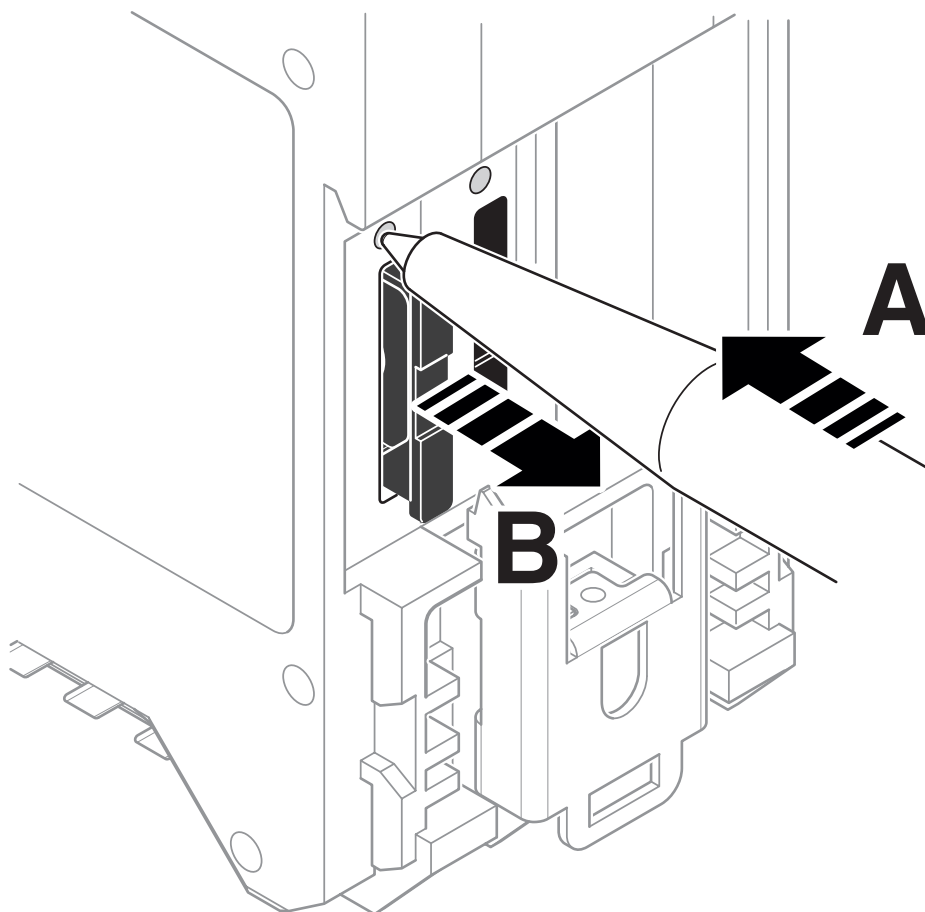


Schematic diagram



Front view

Schematic diagram

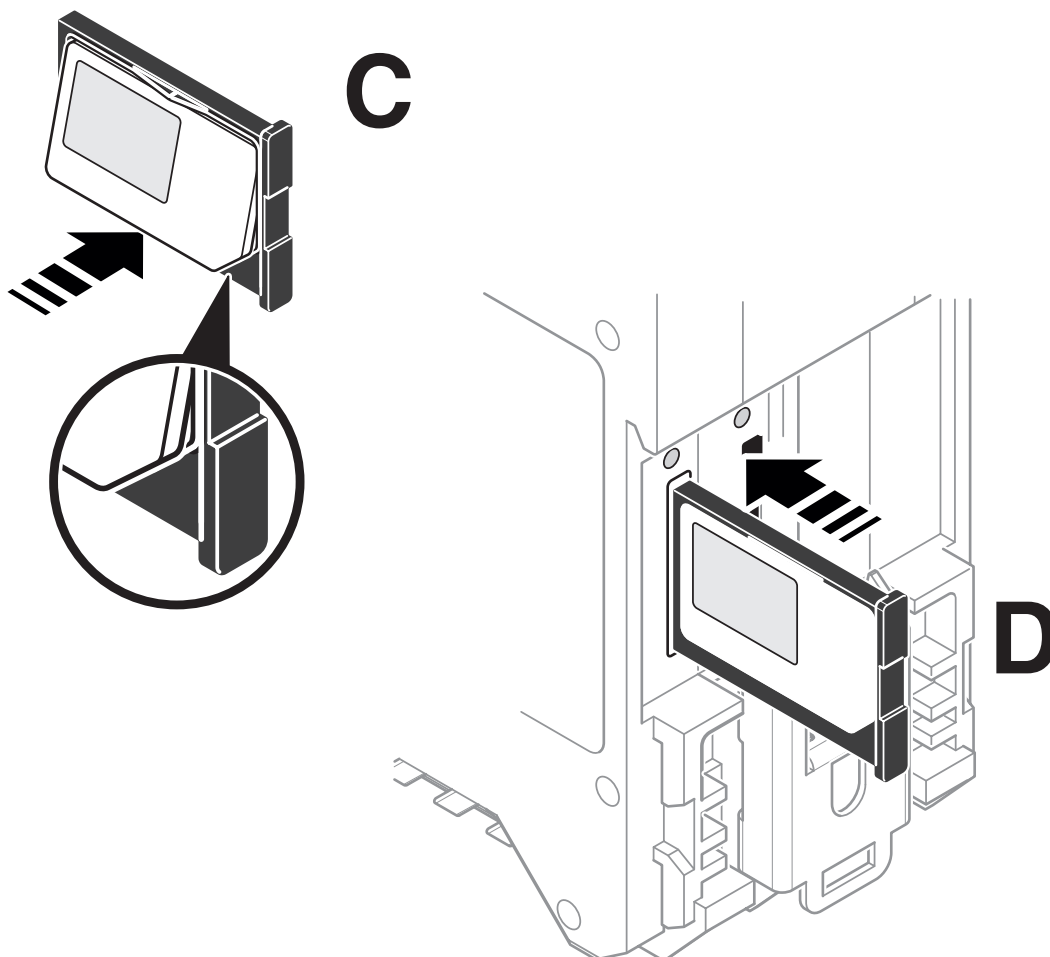


Insert the SIM card

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Schematic diagram



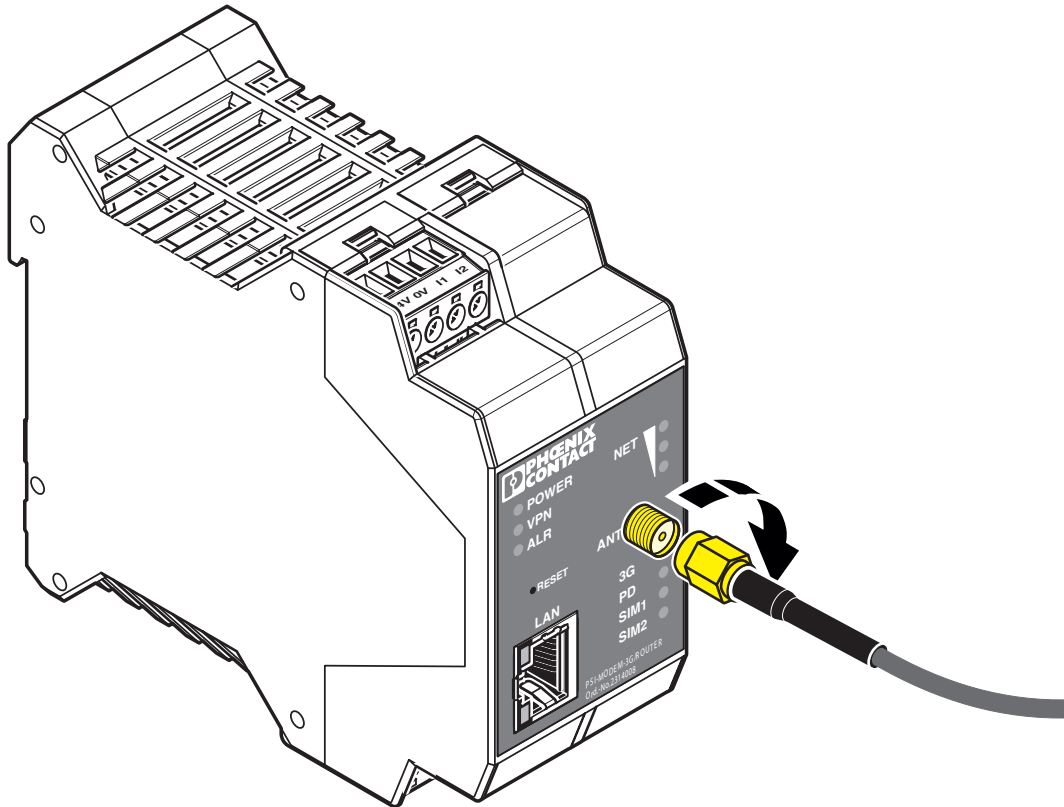
Insert the SIM card

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Schematic diagram



Connect the antenna

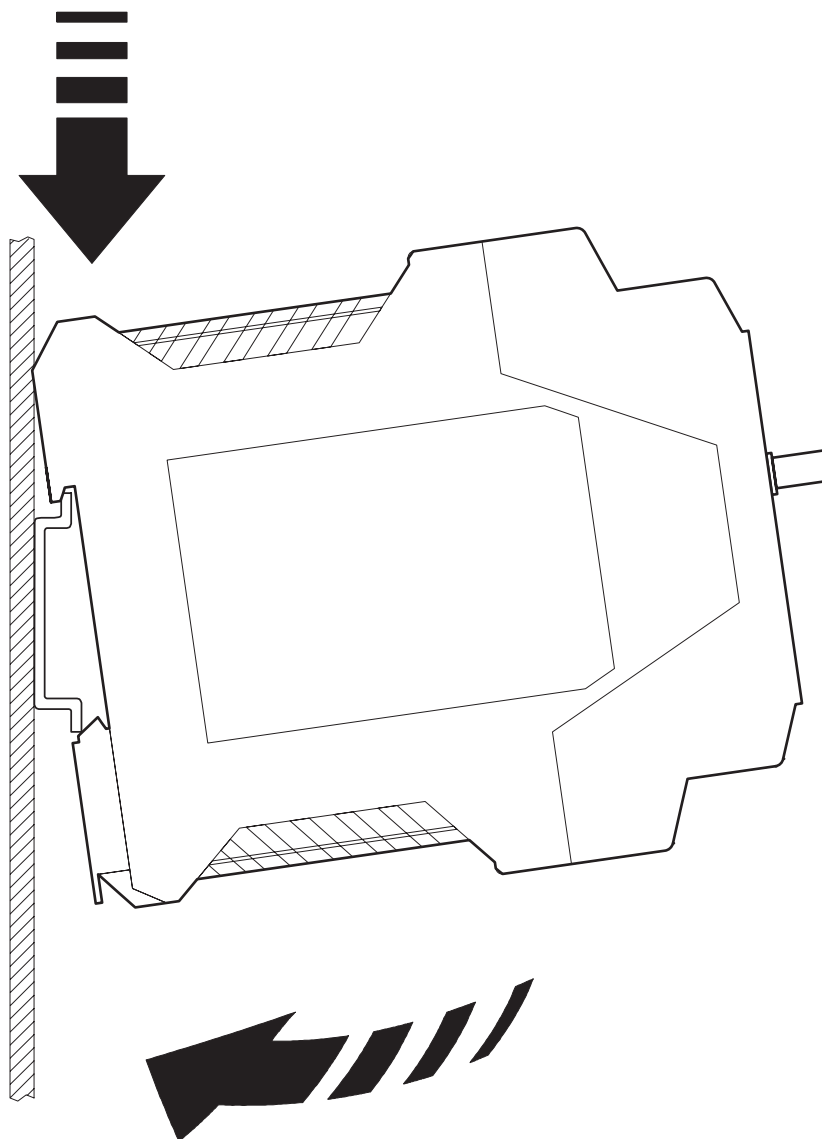
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Schematic diagram



Mounting

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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.)	No substance above 0.1 wt%
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