

Router - PSI-MODEM-3G/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
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C19
Product Key	DNC422
Catalog Page	Page 395 (C-8-2015)
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

Router - PSI-MODEM-3G/ROUTER



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Technical Data

Product properties

Product type	Cellular router
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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

Output name	Digital output
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

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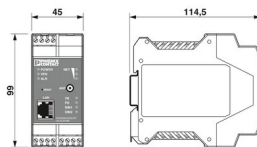
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No. of channels	1
Transmission length	100 m (shielded twisted pair)
Protocols supported	TCP/IP, UDP/IP, FTP, HTTP
Auxiliary protocols	ARP, DHCP, PING (ICMP), SNMP V1, SMTP

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

Dimensions

Dimensional drawing	
Width	45 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Material	PA 6.6-FR (Housing)
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Environmental and real-life conditions

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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)

Approval data

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
Noise immunity	EN 61000-6-2

Electrostatic discharge

Standards/regulations	EN 61000-4-2
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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
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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
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Fast transients (burst)

Input	± 1 kV (Test Level 3)
Signal	± 1 kV (Ethernet and antenna)
Comments	Criterion B

Surge current load (surge)

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Standards/regulations	EN 61000-4-5
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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
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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

Mounting type	DIN rail mounting
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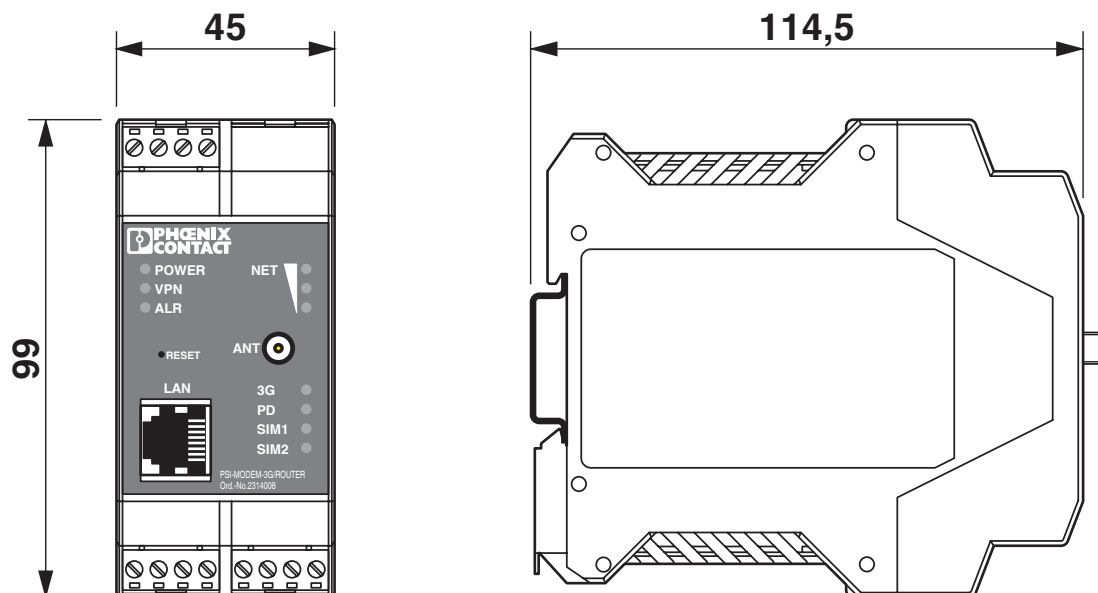
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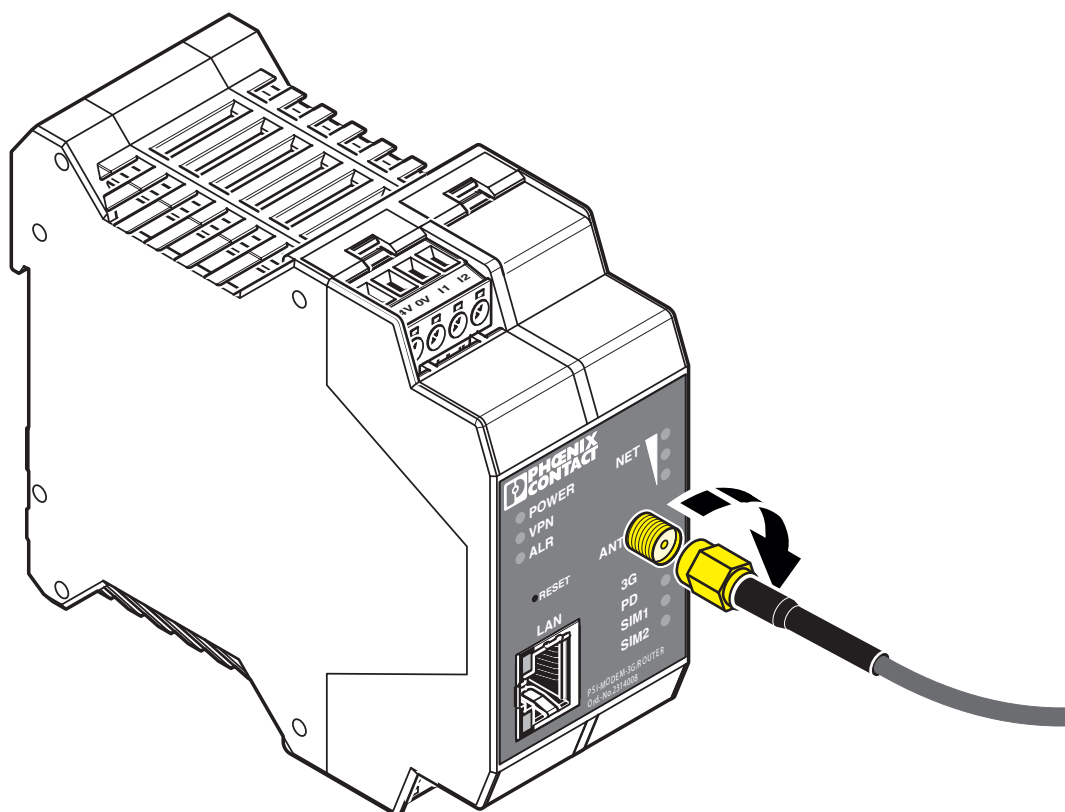


Drawings

Dimensional drawing



Schematic diagram



Connect the antenna

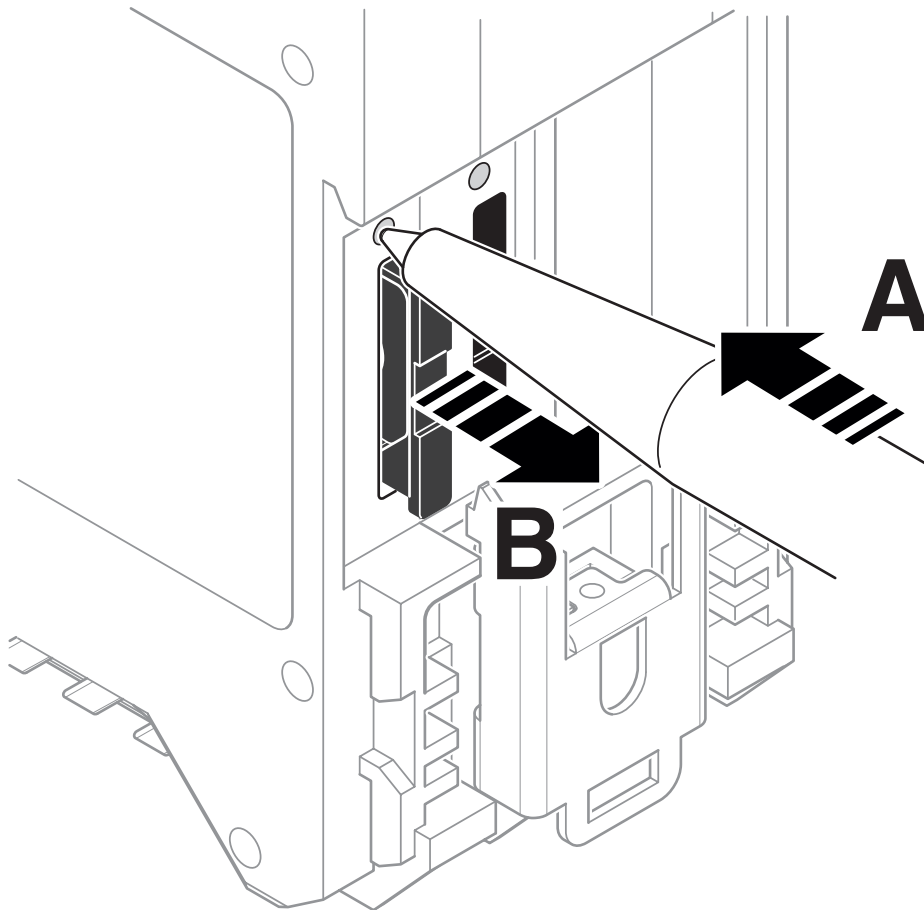
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Schematic diagram



Insert the SIM card

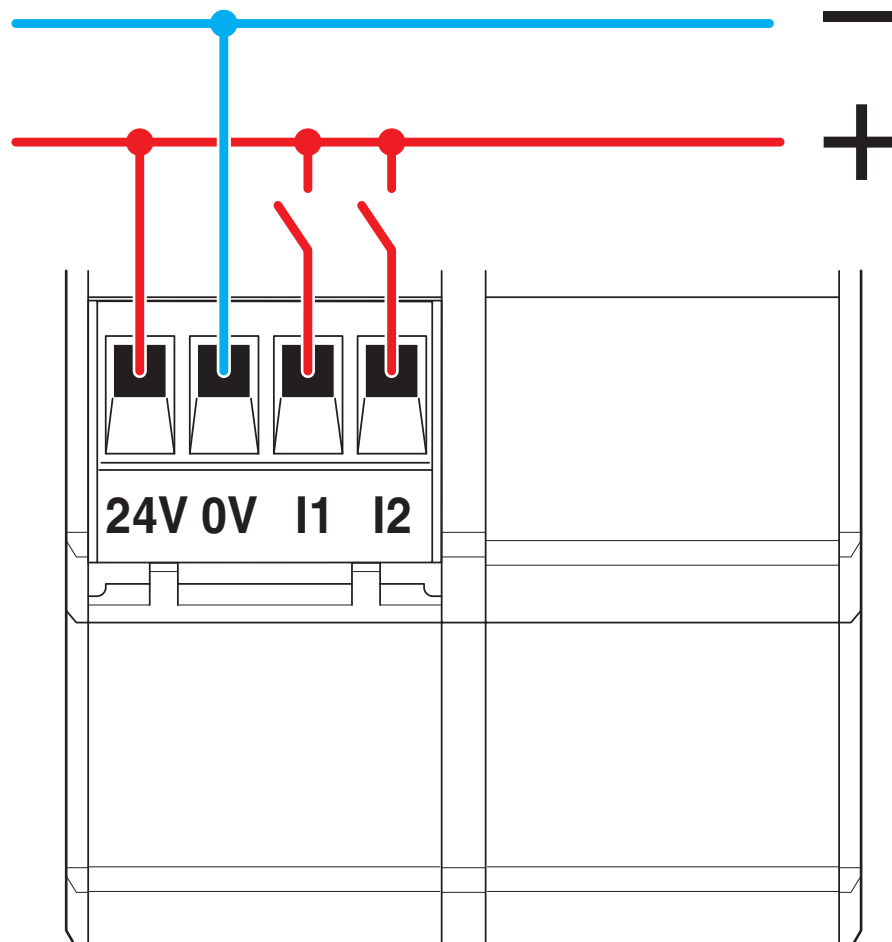
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Connection diagram



Switching inputs

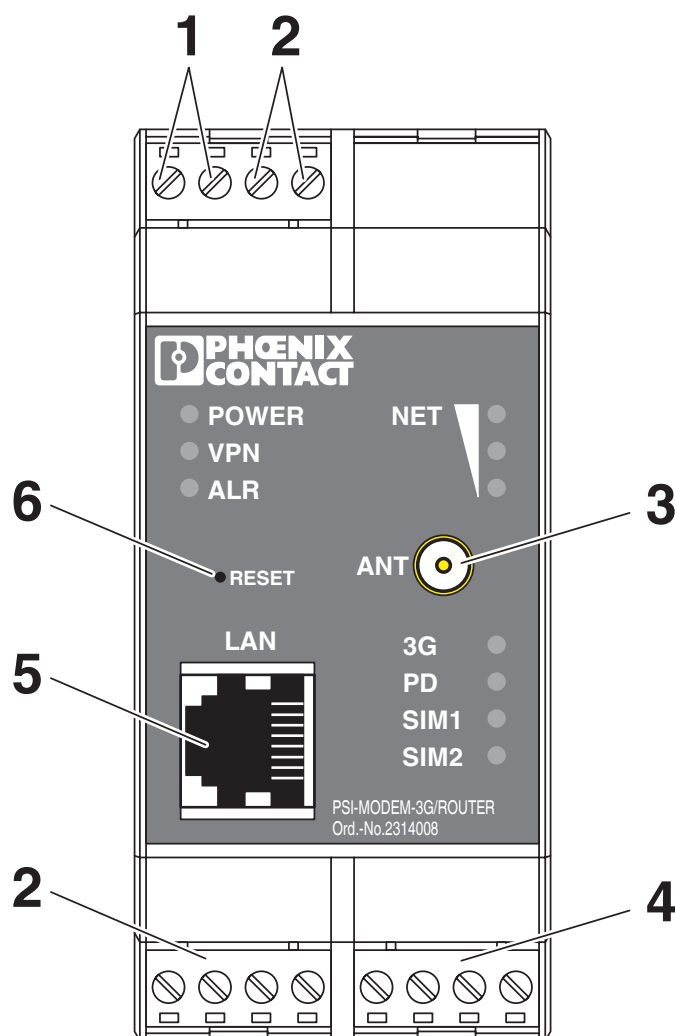
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Schematic diagram



Front view

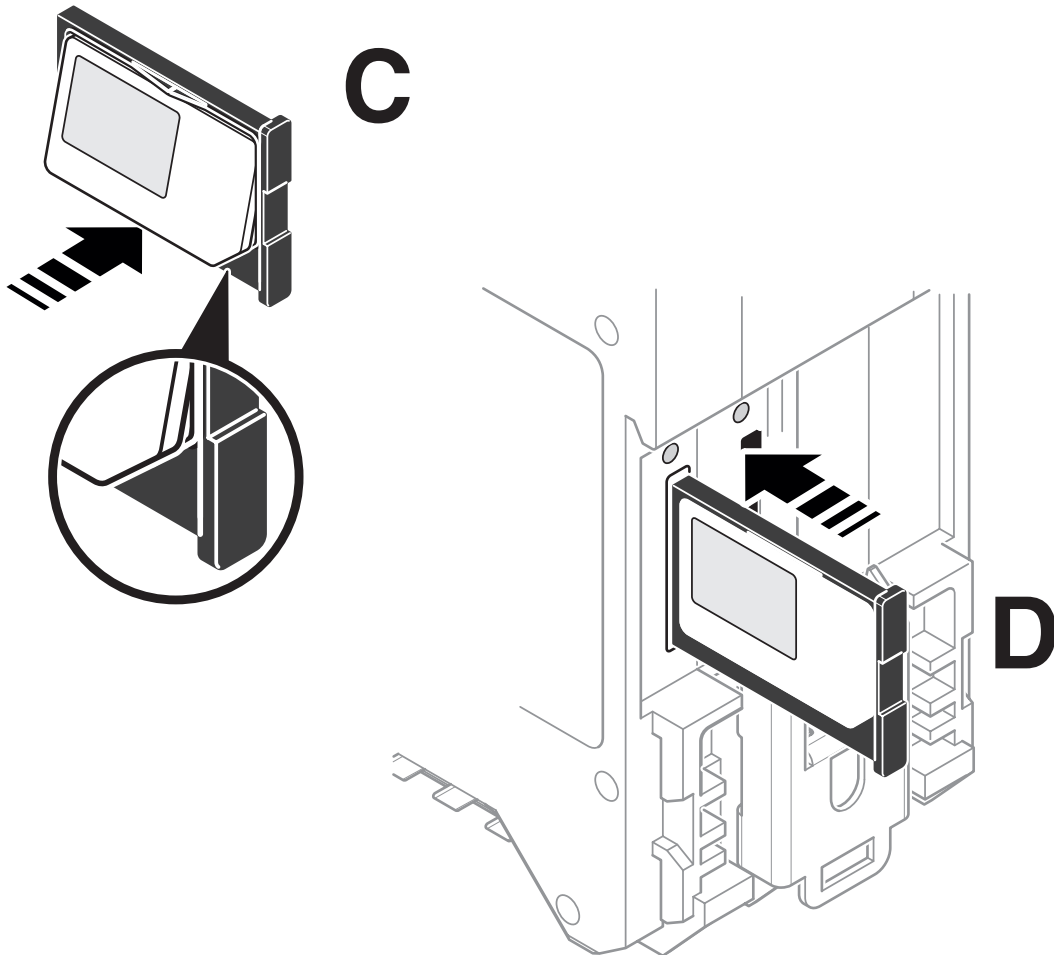
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Schematic diagram



Insert the SIM card

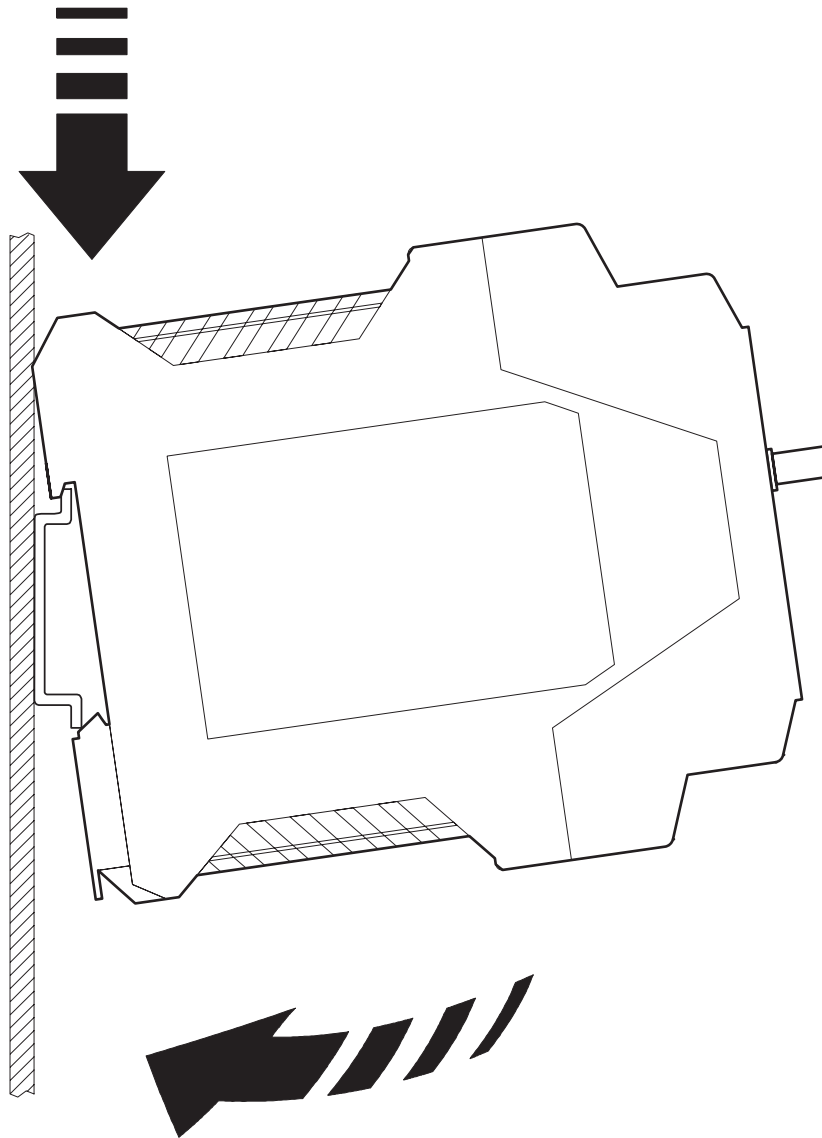
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Schematic diagram



Mounting

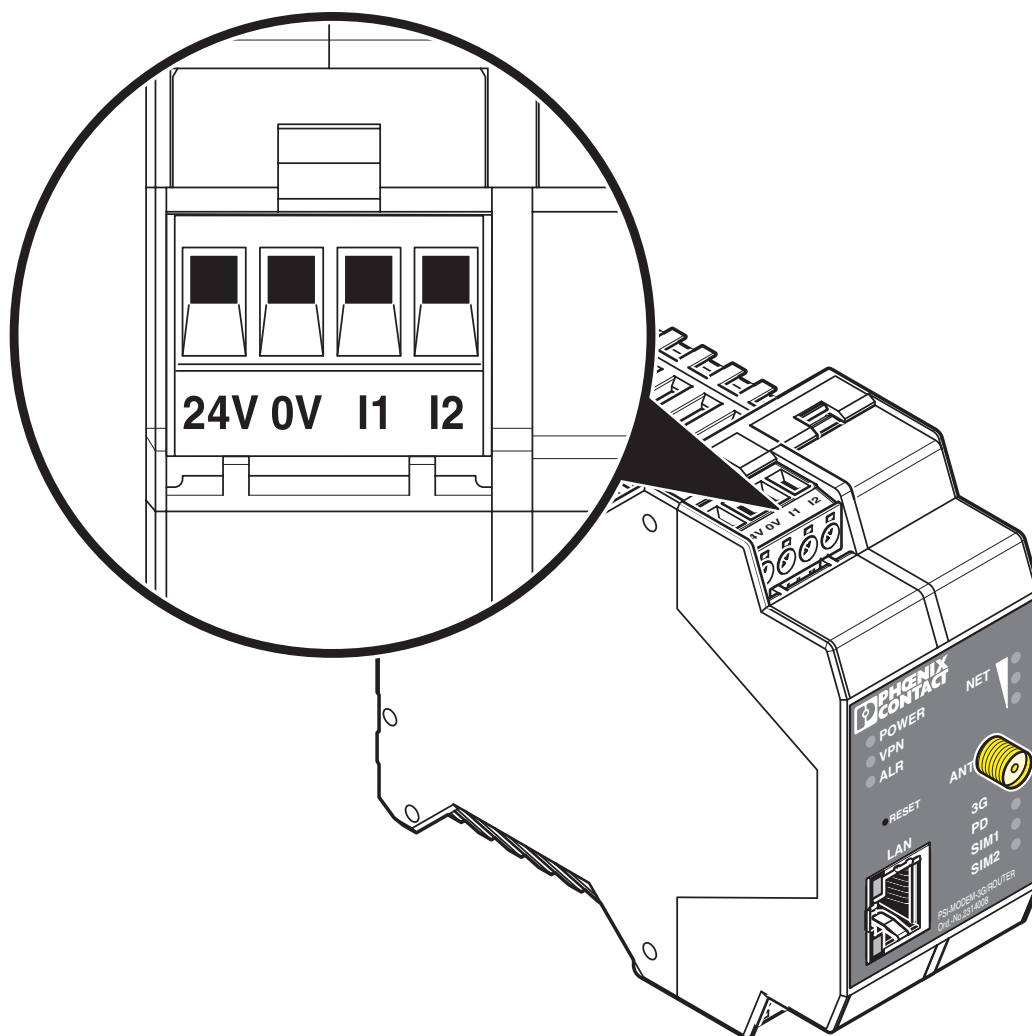
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Connection diagram



Device connections

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Classifications

ECLASS

ECLASS-9.0	19170103
ECLASS-10.0.1	19170405

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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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Accessories

Antenna

Antenna - PSI-GSM/UMTS-QB-ANT - 2313371

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GSM UMTS antenna, with omnidirectional characteristic, 2 m antenna cable with SMA round connector



Antenna cable

Antenna cable - PSI-CAB-GSM/UMTS- 5M - 2900980

<https://www.phoenixcontact.com/us/products/2900980>

Cellular antenna cable, 5 m in length, SMA (male) -> SMA (female), 50 ohm impedance



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Antenna cable

Antenna cable - PSI-CAB-GSM/UMTS-10M - 2900981

<https://www.phoenixcontact.com/us/products/2900981>

Cellular antenna cable, 10 m in length, SMA (male) -> SMA (female), 50 ohm impedance



Surge protection device

Surge protection device - CSMA-LAMBDA/4-2.0-BS-SET - 2800491

<https://www.phoenixcontact.com/us/products/2800491>

Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces. Connection: Male/female SMA connectors.



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Antenna

Antenna - TC ANT MOBILE WALL 5M - 2702273

<https://www.phoenixcontact.com/us/products/2702273>



Multiband omnidirectional antenna for wall or mast mounting, 0.6 GHz ... 6 GHz, gain: 3 dBi ... 7 dBi, degree of protection: IP66, connection: SMA (male), incl. 5 m connecting cable, mounting bracket, and mast clamps

License

License - MGUARD SECURE VPN CLIENT LIC - 2702579

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