

# TC CLOUD CLIENT 1002-4G VZW - Router



2702887

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Industrial VPN gateway for mGuard Secure Cloud, IPsec communication via 4G (LTE), Verizon Wireless (US), 2-port switch, 1 digital input, 1 digital output

## Product description

The TC CLOUD CLIENT 4G product range offers cost-effective field devices for secure remote maintenance scenarios via the 4G LTE mobile network. The devices are optimized for use with the mGuard Secure Cloud. For this reason, all CLOUD CLIENT devices support Virtual Private Networks (VPNs) as standard. A scope of functions optimized for the mGuard Secure Cloud enables quick startup of the devices in the field.

## Your advantages

- Secure communication via IPsec
- Configuration via web-based management or microSD card
- Cloud-based VPN infrastructure from Phoenix Contact
- Turnkey VPN infrastructure for operators, machine builders, and systems manufacturers
- Secure and reliable, thanks to industry-proven mGuard security technology
- Support for cellular iOS-based devices such as Apple iPads and iPhones

## Commercial data

Item number	2702887
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN25
Product key	DNC422
GTIN	4055626378626
Weight per piece (including packing)	347 g
Weight per piece (excluding packing)	347 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.
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### Product properties

Product type	Remote maintenance gateway
Application	Ethernet
MTTF	383 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	184 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	78 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

#### Insulation characteristics

Pollution degree	2
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#### Security functions

1:1 Network Address Translation (NAT) in the VPN	supported
Number of VPN tunnels	1
Authentication	X.509v3, PSK
Data integrity	MD5
	SHA-1
Internet Protocol Security (IPsec) mode	ESP tunnel
Encryption methods	3DES, AES-128, -192, -256

### Electrical properties

Electrical isolation	VCC // LTE // Ethernet // PE
Mains type	Cellular communication

#### Supply

Supply voltage range	10 V DC ... 30 V DC (SELV)
Typical current consumption	< 200 mA (24 V DC)
	65 mA (With activated energy-saving mode)

#### Function

Management	Web-based management, SNMP
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### Input data

#### Digital

Description of the input	Digital input
Number of inputs	1
Voltage input signal	10 V DC ... 30 V DC

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Switching level "1" signal	10 V DC ... 30 V DC
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## Output data

### Signal

Output name	Digital output
Number of outputs	1
Voltage output signal	10 V DC ... 30 V DC (depending on the operating voltage)
Current output signal	≤ 50 mA (Not short-circuit proof)

## Connection data

### Supply

Single conductor/terminal point, rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Single-wire/terminal point, flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 16

## Interfaces

Web server	yes
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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	2 (SELV)
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	LTE (FDD)
Frequency range	700 MHz (LTE B13) 1700 MHz (LTE B4)
Data rate	≤ 150 Mbps (LTE, DL) ≤ 50 Mbps (LTE, UL)
Antenna	50 Ω impedance SMA antenna socket
Antenna connection method	SMA (female)
SIM Interface	1.8 volt, 3 volt
LTE	CAT4
Country support	USA

## Dimensions

Width	45 mm
Height	130 mm
Depth	126 mm

## Material specifications

Color (Upper housing part)	gray (RAL 7042)
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Material (Housing)	Plastic
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## Mechanical tests

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): 15g

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (Manufacturer's declaration)
Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	0 °C ... 60 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

## Approvals

### UL, USA/Canada

Identification	Class I, Zone 2, AEx nA IIC T4 / Ex nA IIC T4 Gc Class I, Div. 2, Groups A, B, C, D T4
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### Corrosive gas test

Identification	ISA-S71.04-1985 G3 Harsh Group A
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### Wireless approval USA, FCC

Certificate	N7NHL7518
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 61000-6-2

### 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	80 MHz ... 3 GHz (Test Level 3)
Field intensity	10 V/m
Comments	Criterion A

### Fast transients (burst)

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

Input	± 2 kV (Test Level 3)
Signal	± 2 kV (Ethernet)
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 (Data 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

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

#### 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

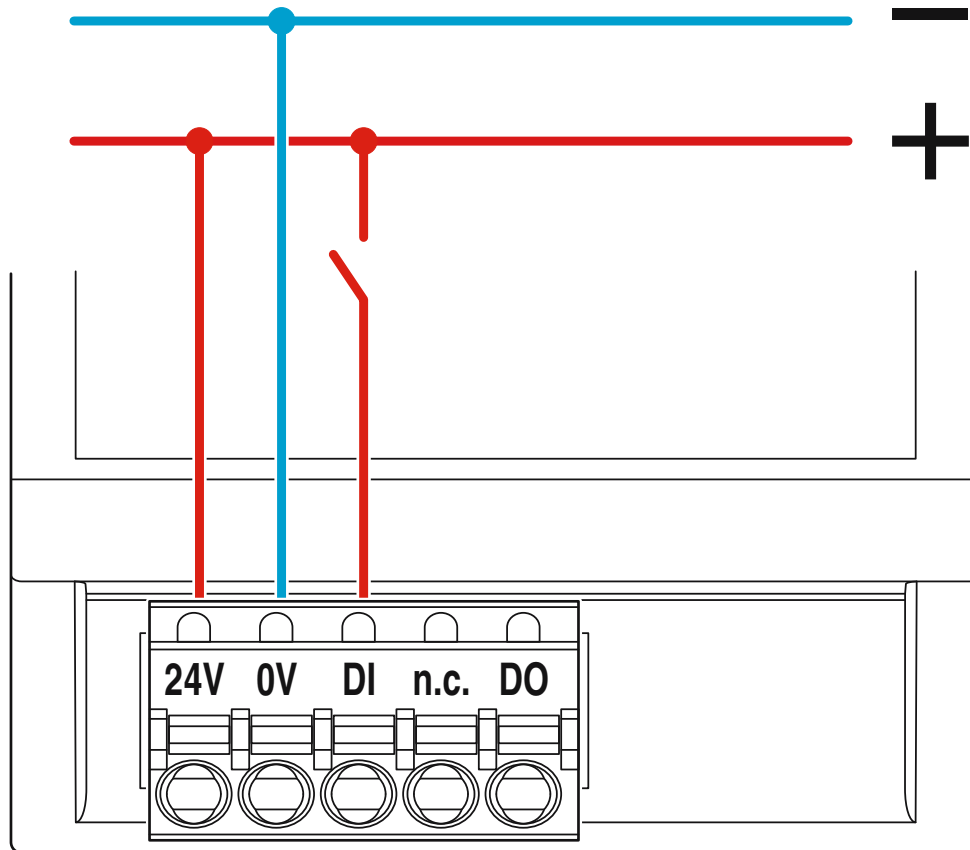
Mounting type	DIN rail mounting
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## Drawings

Connection diagram



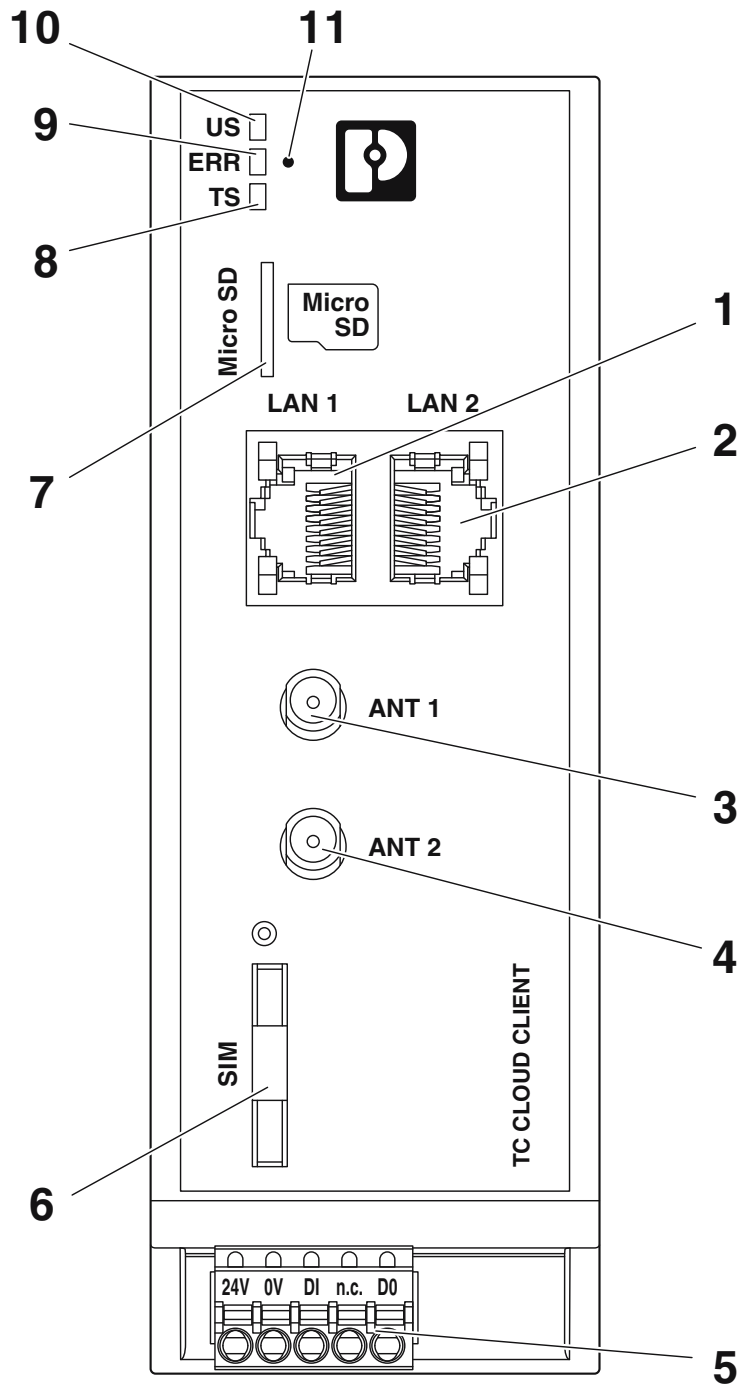
Switching input and switching output

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Schematic diagram

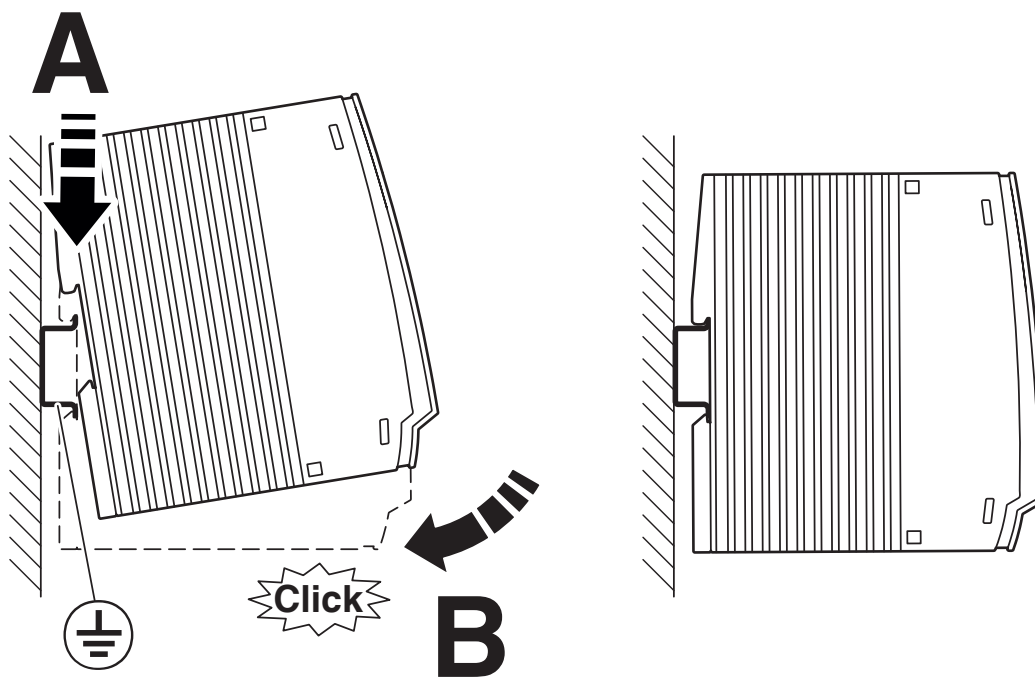


Front view

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Schematic diagram



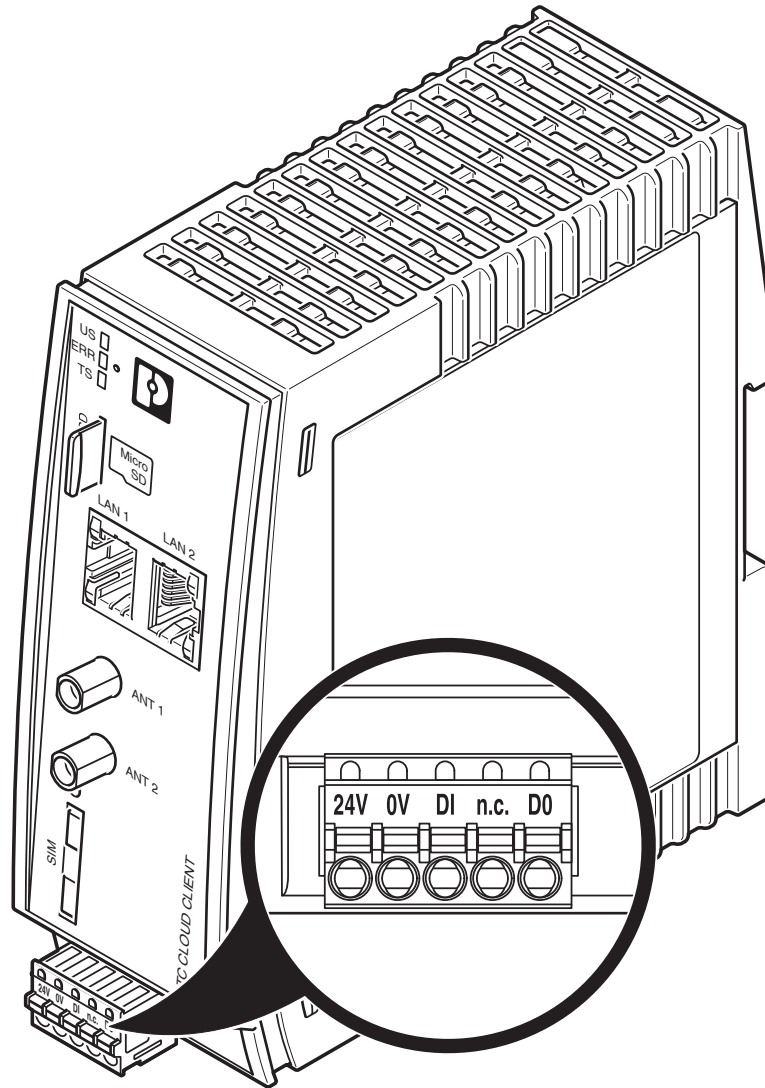
DIN rail mounting

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Schematic diagram



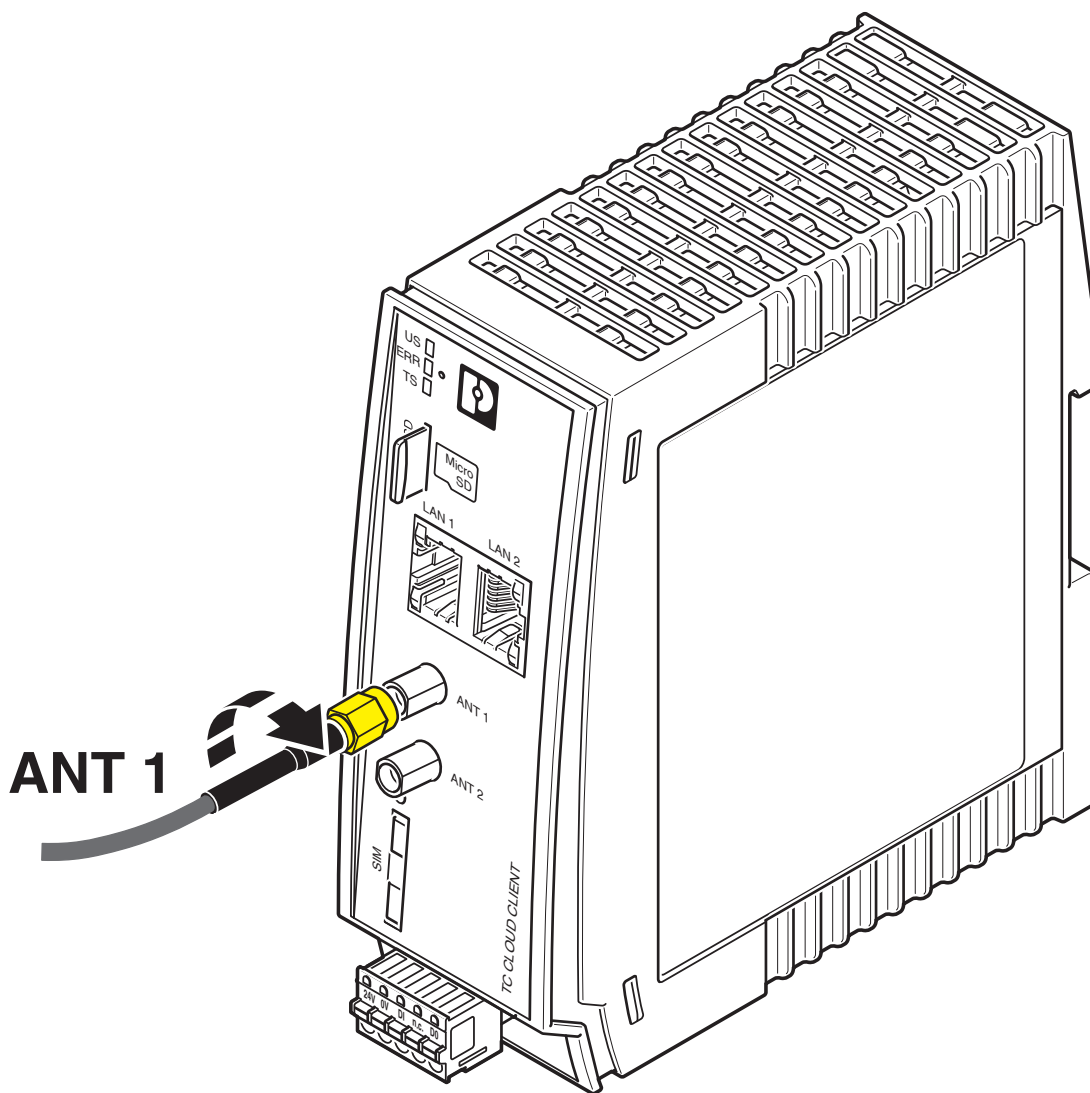
Connecting the supply voltage

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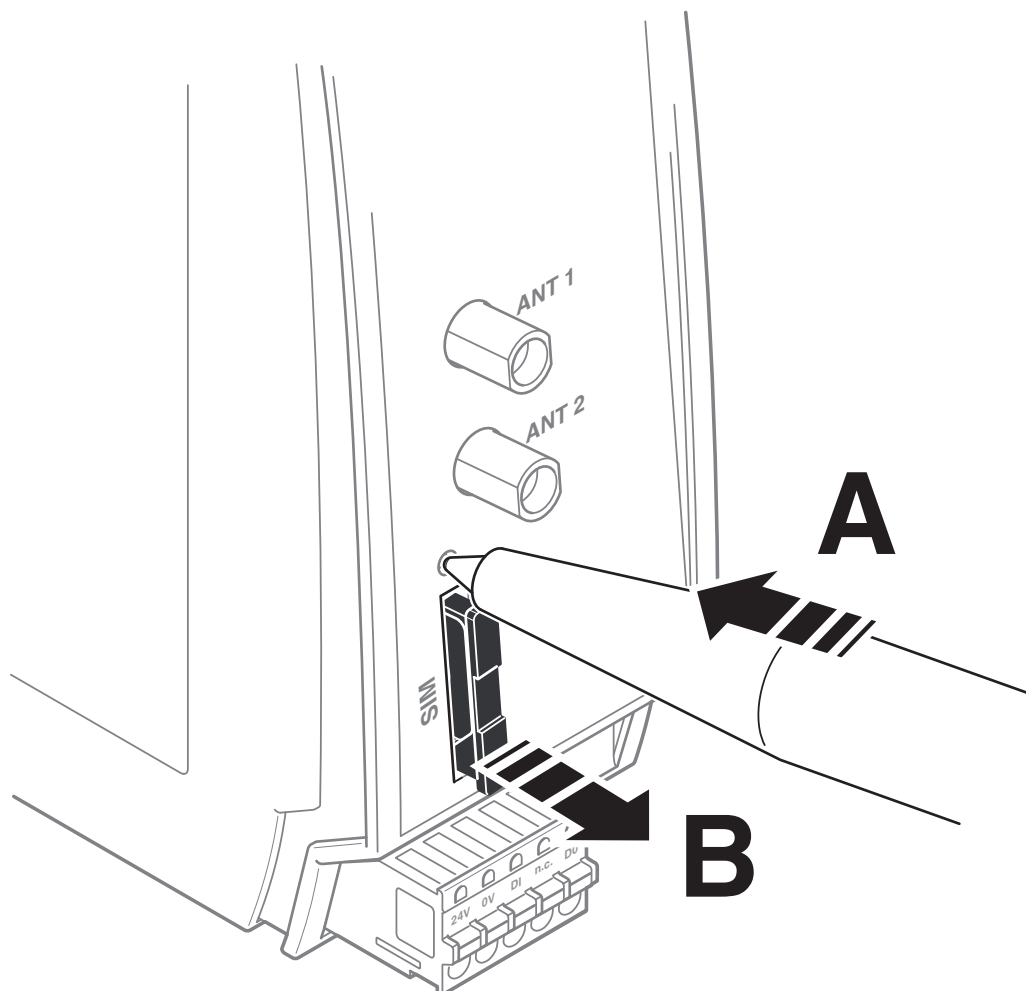
<https://www.phoenixcontact.com/us/products/2702887>

Schematic diagram



Connect the antenna

## Schematic diagram

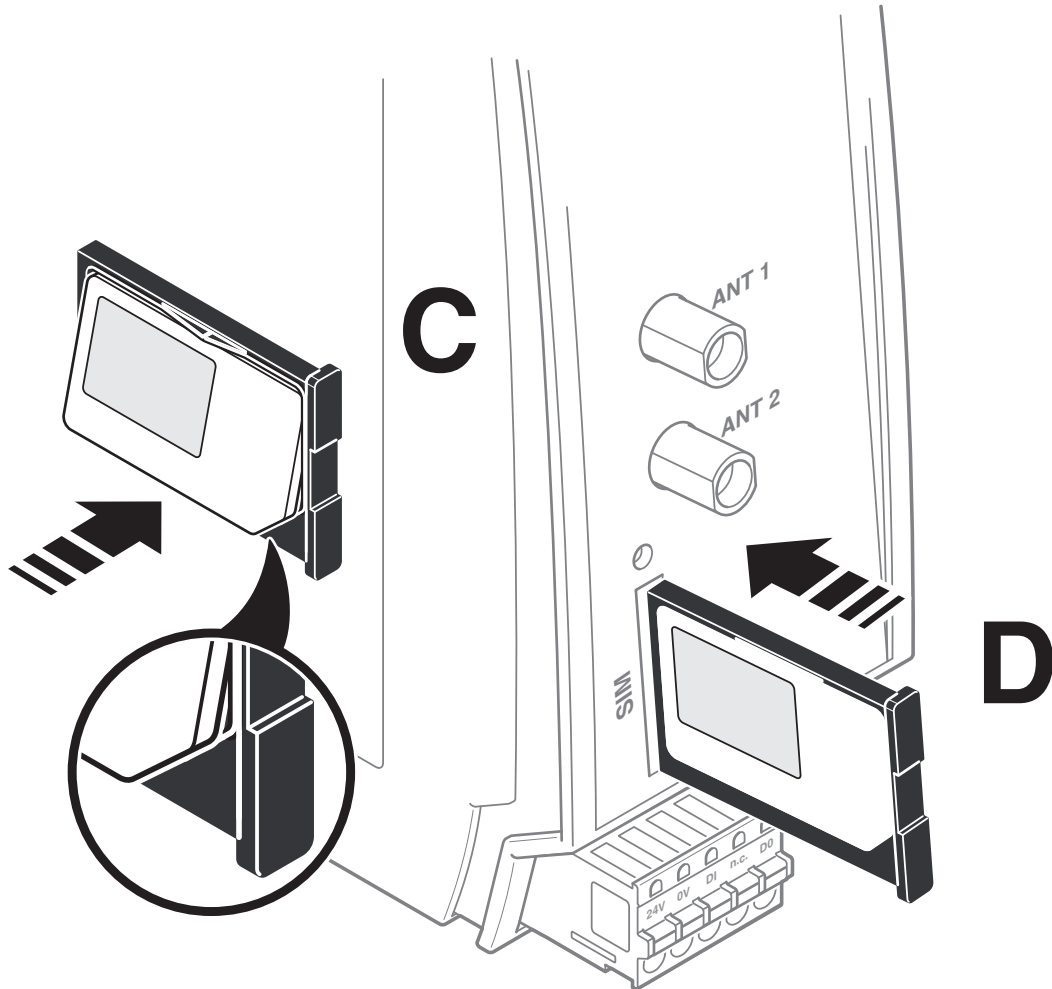


Remove SIM card holder

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## Schematic diagram



Insert the SIM card

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## Classifications

### ECLASS

ECLASS-13.0

19170502

### ETIM

ETIM 9.0

EC001478

### UNSPSC

UNSPSC 21.0

43222600

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## Environmental product compliance

### 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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