TC DSL ROUTER X500 A/B - Router

2902710

https://www.phoenixcontact.com/us/products/2902710

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Industrial ADSL broadband router/modem with RS-232, integrated firewall, NAT and VPN support (IPsec, OpenVPN). The device supports the standards Annex A, B, and J (ALL-IP connections of Deutsche Telekom). Annex J as of firmware v1.05.4

Your advantages

- Annex A/Annex B switchover via web-based management
- DynDNS
- Alarm inputs and switching outputs
- NAT table
- 10/100 Mbps automatic detection
- Configuration via web-based management
- Up to 3 VPN tunnels simultaneously
- Authentication with X.509 certificates
- Firewall
- IPsec and OpenVPN
- Switchover between DSL router (default) and DSL modem
- Can be used worldwide
- High electromagnetic compatibility

Commercial data

Item number	2902710
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNC432
GTIN	4046356680981
Weight per piece (including packing)	326.2 g
Weight per piece (excluding packing)	326.2 g
Country of origin	DE

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Technical data

Product properties

Product type	Modem
MTTF	563 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	278 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	46 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Security functions

1:1 Network Address Translation (NAT) in the VPN	supported
Number of VPN tunnels	3
Firewall rules	Stateful inspection firewall

Electrical properties

Electrical isolation	VCC + IO + RS-232//ADSL//Ethernet//FE
Maximum power dissipation for nominal condition	3 W
Mains type	Fixed-line network
Test voltage data interface/data interface	1.5 kV_{rms} (50 Hz, 1 min.)
Test voltage data interface/power supply	1.5 kV_{rms} (50 Hz, 1 min.)

Supply

Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Typical current consumption	< 150 mA (24 V DC)
	< 135 mA (stand by)
Max. current consumption	< 300 mA (10 V DC)

Function

Management	Web-based management

Input data

Digital

Description of the input	Digital input
Number of inputs	6
Voltage input signal	10 V DC ... 30 V DC
Current input signal	5 mA

Output data

Signal

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

Interfaces

Signal	Ethernet
Web server	yes

Data: ADSL interface, according to ITU-T G.992.1, G.992.3, G.992.5/Annex A, Annex B, Annex J

Data rate	≤ 25 Mbps (Annex A/B, downstream from Internet)
	≤ 1 Mbps (Annex A/B, upstream to Internet)
	≤ 25 Mbps (Annex J, downstream from Internet)
	≤ 2.4 Mbps (Annex J, upstream to Internet)
Connection method	6P2C RJ11 socket, shielded
	COMBICON plug-in screw terminal block
Transmission length	≤ 5 km
Ringer Equivalence Number	0.3 (B)

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

Serial transmission speed	10/100 Mbps, auto negotiation
Connection method	8P8C 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

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

Serial transmission speed	0.3; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2 kbps
Connection method	D-SUB 9 plug
Pin assignment	DTE/DCE switchover via web-based management
Transmission length	15 m
File format/coding	UART/NRZ: 7/8 Bit Data, 1/2 Bit Stopp, None/Even/Odd Parity
Data flow control/protocols	Software handshake, Xon/Xoff or hardware handshake RTS/CTS

Dimensions

Width	45 mm
Height	99 mm
Depth	112 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 ... 75 °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

Corrosive gas test

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

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Mounting

Mounting type	DIN rail mounting

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Drawings

Connection diagram

Schematic diagram

1   2   3 nc 4

10

5

POWER
DSL
Internet

DSL

VPN
RD
TD

9

6

RS-232

LAN1

LAN

LAN2

8   7
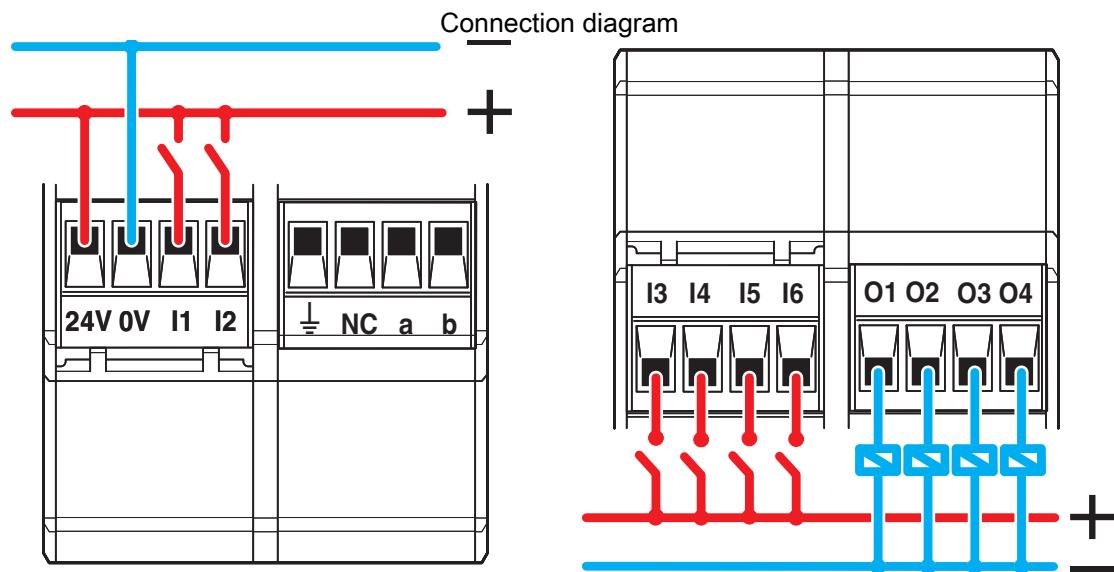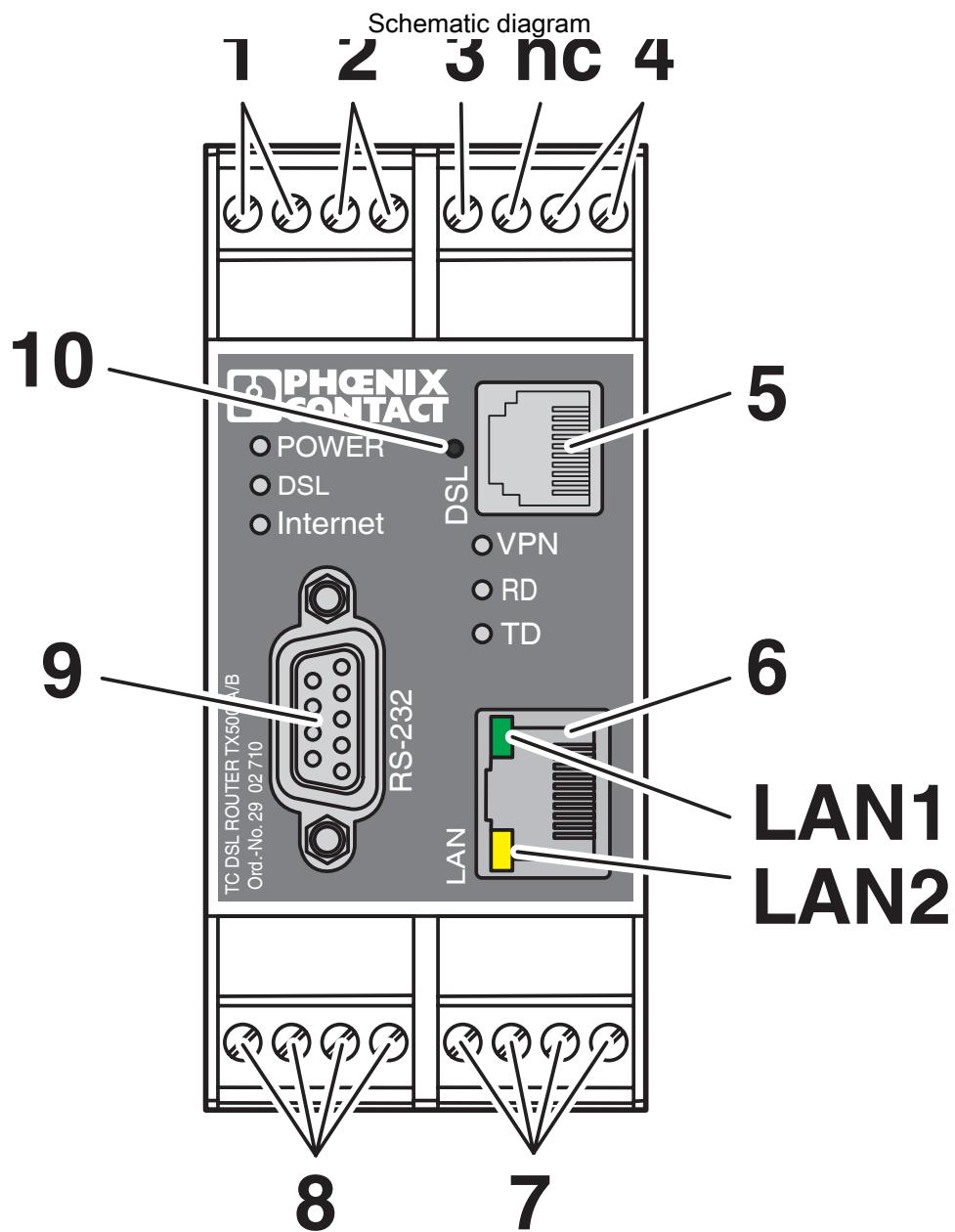
Front view

Schematic diagram

24 V   0 V   I1   I2
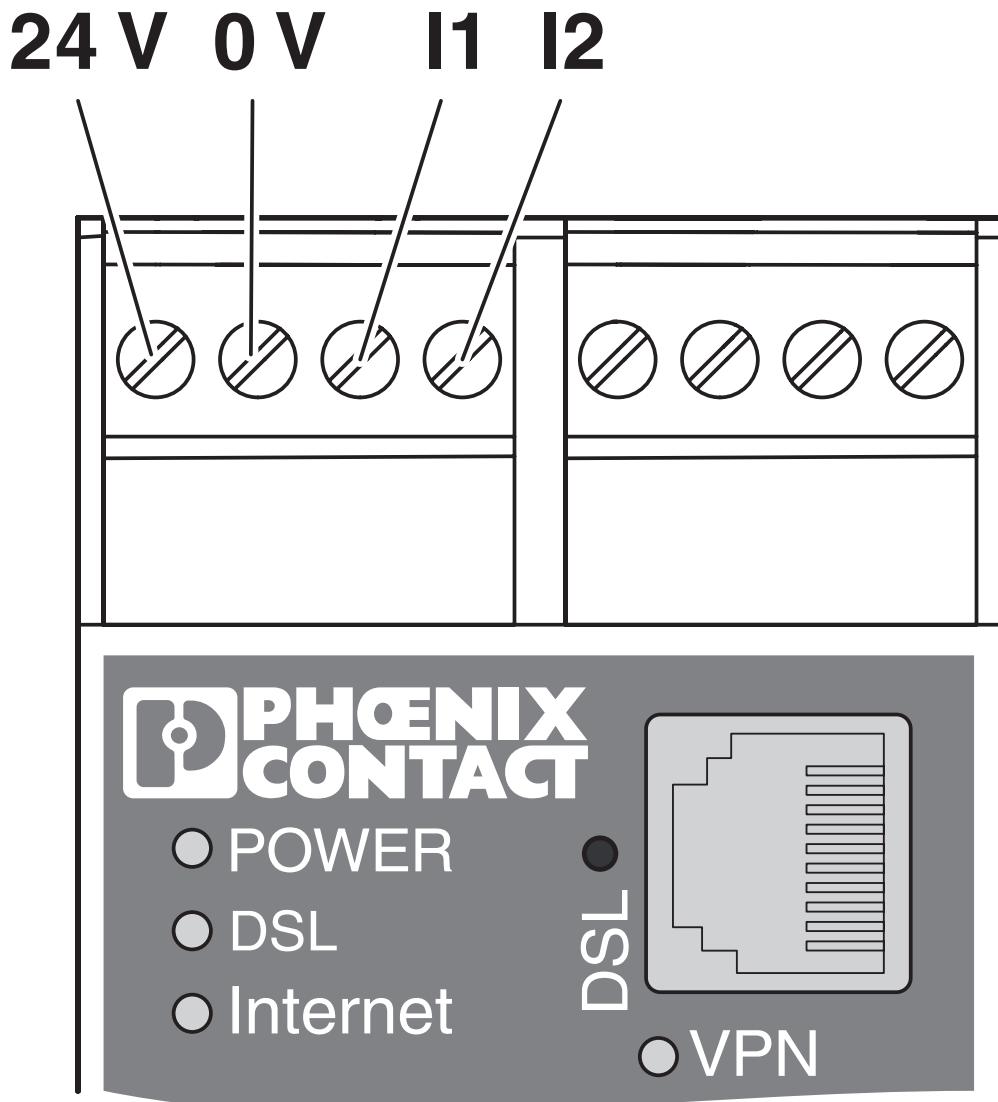
Device connections
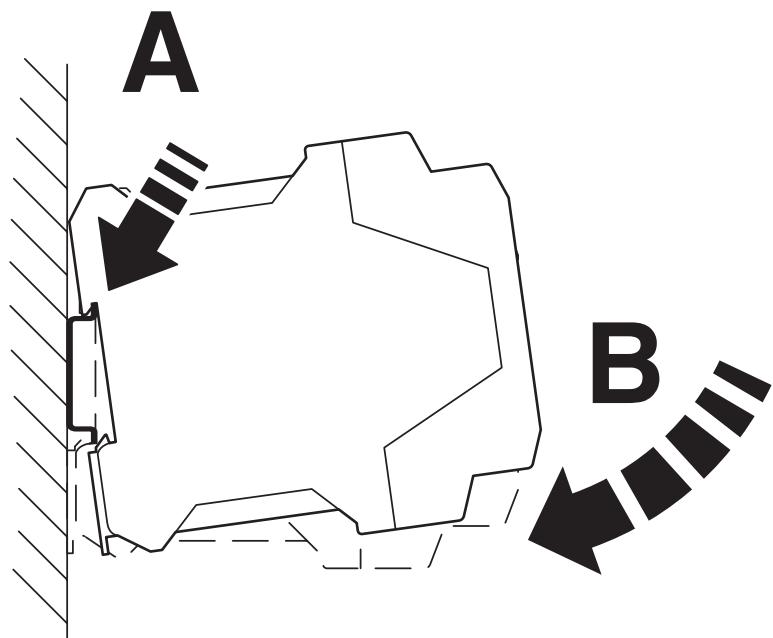
Schematic diagram

Mounting

Schematic diagram
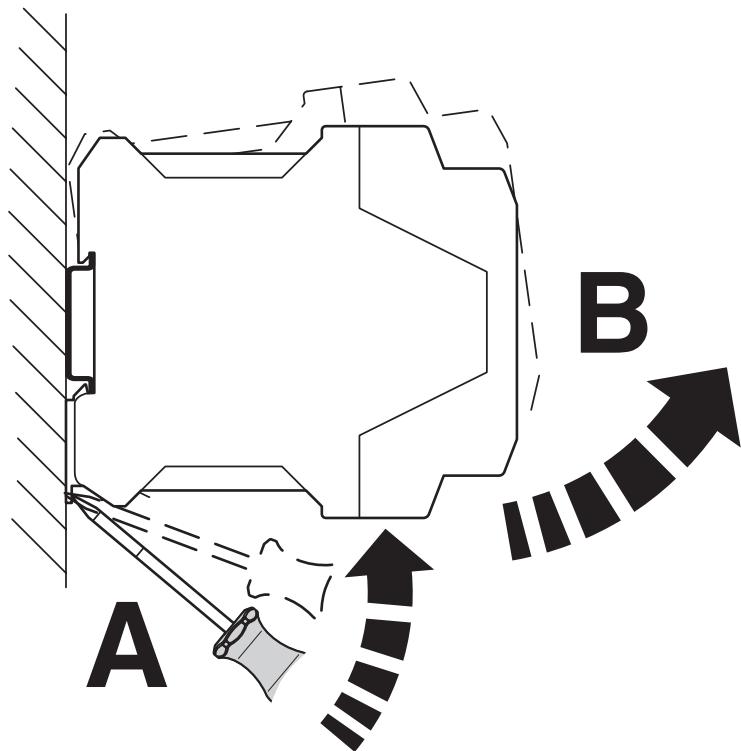
Removal

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Circuit diagram

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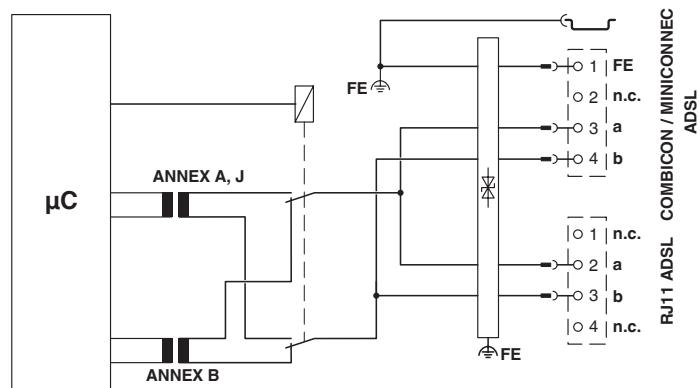
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Classifications

UNSPSC

UNSPSC 21.0	43201553

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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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