

Router - TC DSL ROUTER X500 A/B - 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

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



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356680981

Technical data

Dimensions

Width	45 mm
Height	99 mm
Depth	112 mm

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Technical data

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (non-condensing)
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Degree of protection	IP20

General

Electrical isolation	VCC + IO + RS-232//ADSL//Ethernet//FE
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.)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Net weight	326.2 g
Housing material	PA 6.6-FR
Color	green
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%)

Power supply

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

Interfaces

Interface 1	ADSL interface, according to ITU-T G.992.1, G.992.3, G.992.5/Annex A, Annex B, Annex J
Connection method	6P2C RJ11 socket, shielded
	COMBICON plug-in screw terminal block
Transmission length	≤ 5 km
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)
Ringer Equivalence Number	0.3 (B)
Interface 2	Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3
No. of ports	1
Connection method	8P8C RJ45 jack, shielded
Transmission length	≤ 100 m (shielded twisted pair)
Protocols supported	TCP/IP, UDP/IP, FTP, HTTP

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Technical data

Interfaces

Auxiliary protocols	ARP, DHCP, PING (ICMP), SNMP V1, SMTP
Serial transmission speed	10/100 Mbps, auto negotiation
Interface 3	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
Connection method	D-SUB 9 plug
File format/coding	UART/NRZ: 7/8 Bit Data, 1/2 Bit Stopp, None/Even/Odd Parity
Transmission length	15 m
Pin assignment	DTE/DCE switchover via web-based management
Data flow control/protocols	Software handshake, Xon/Xoff or hardware handshake RTS/CTS
Serial transmission speed	0.3; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2 kbps

Function

Web-based management	yes
Management	Web-based management
Security functions	Supported

Digital outputs

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)

Digital inputs

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

Conformance/approvals

Designation	CE
Identification	CE-compliant
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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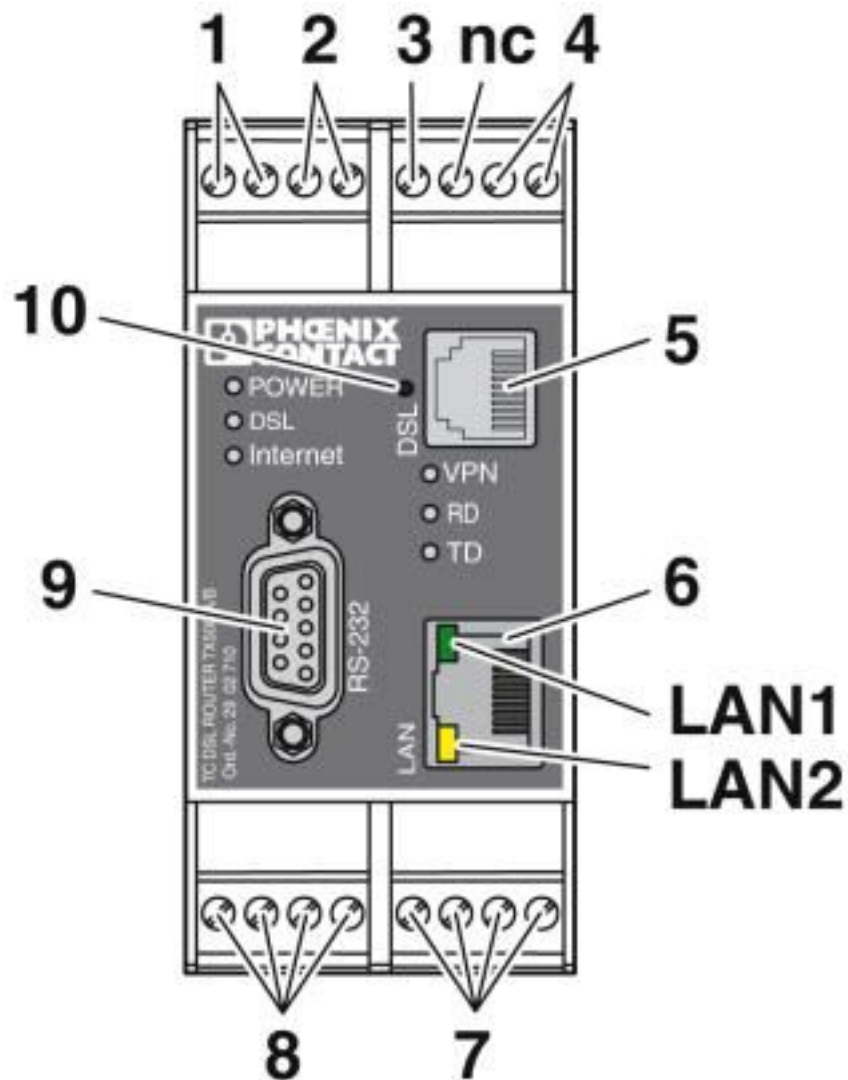
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

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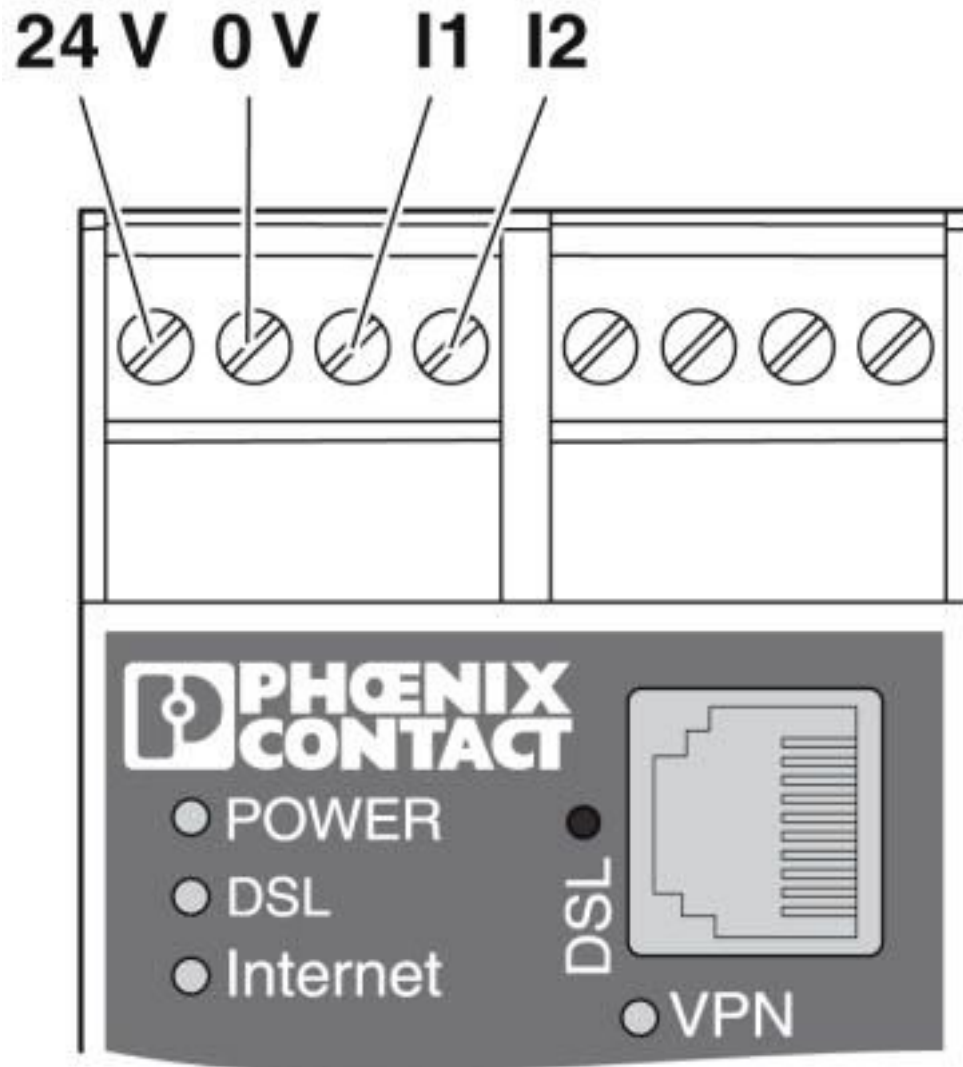
Schematic diagram



Front view

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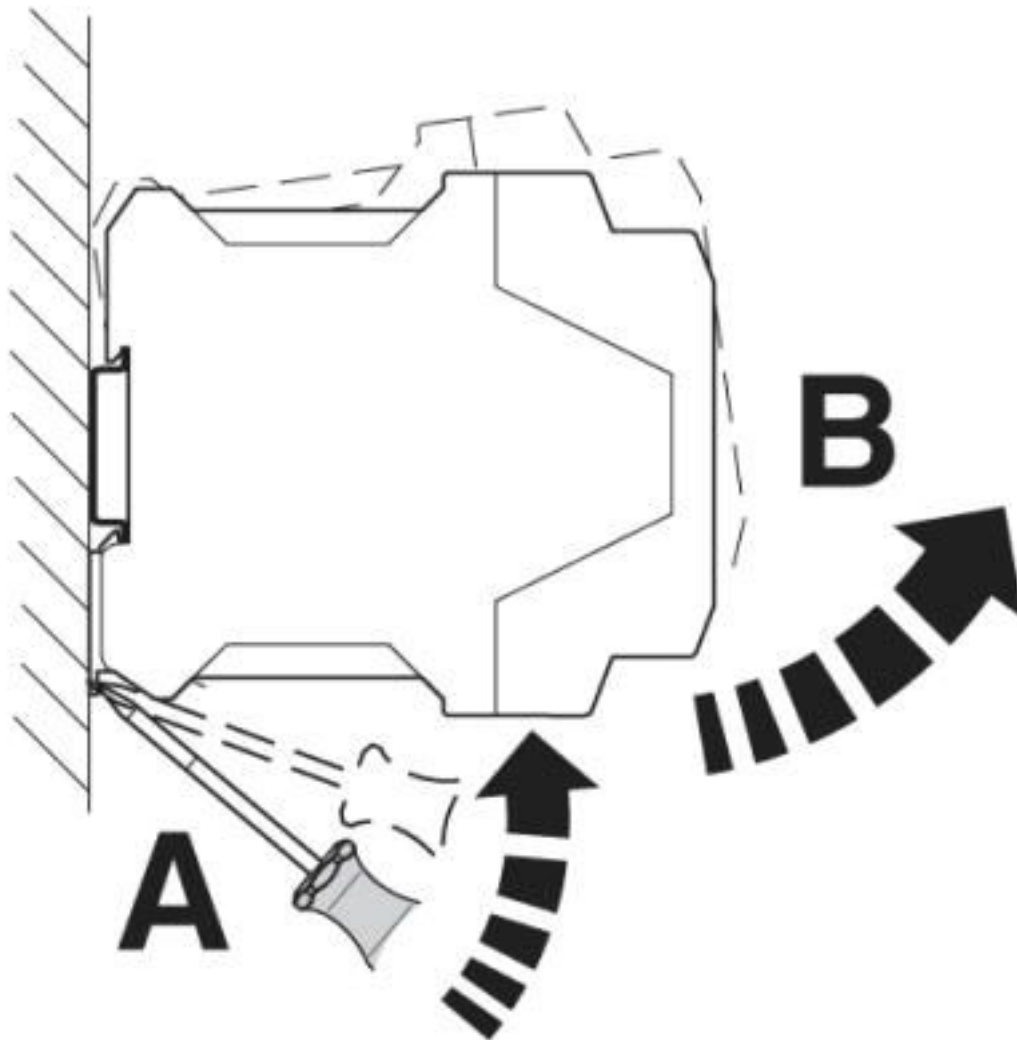
Schematic diagram



Device connections

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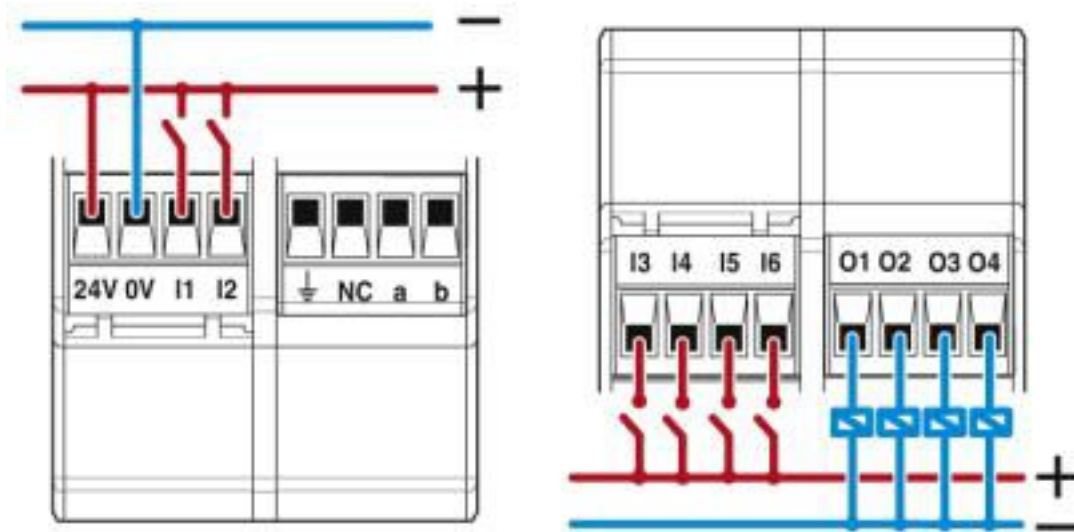
Schematic diagram



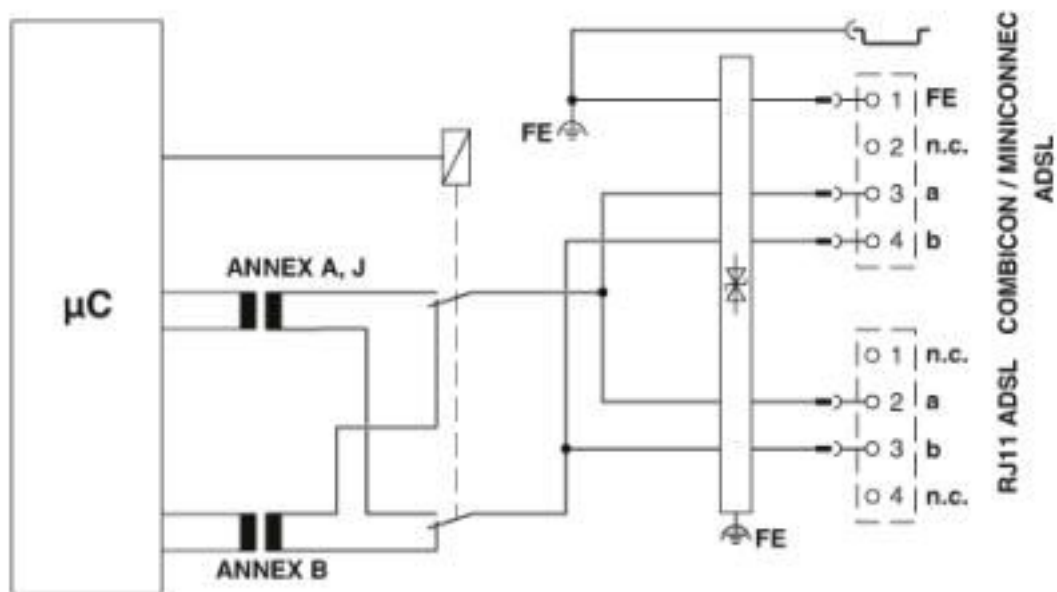
Removal

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Connection diagram

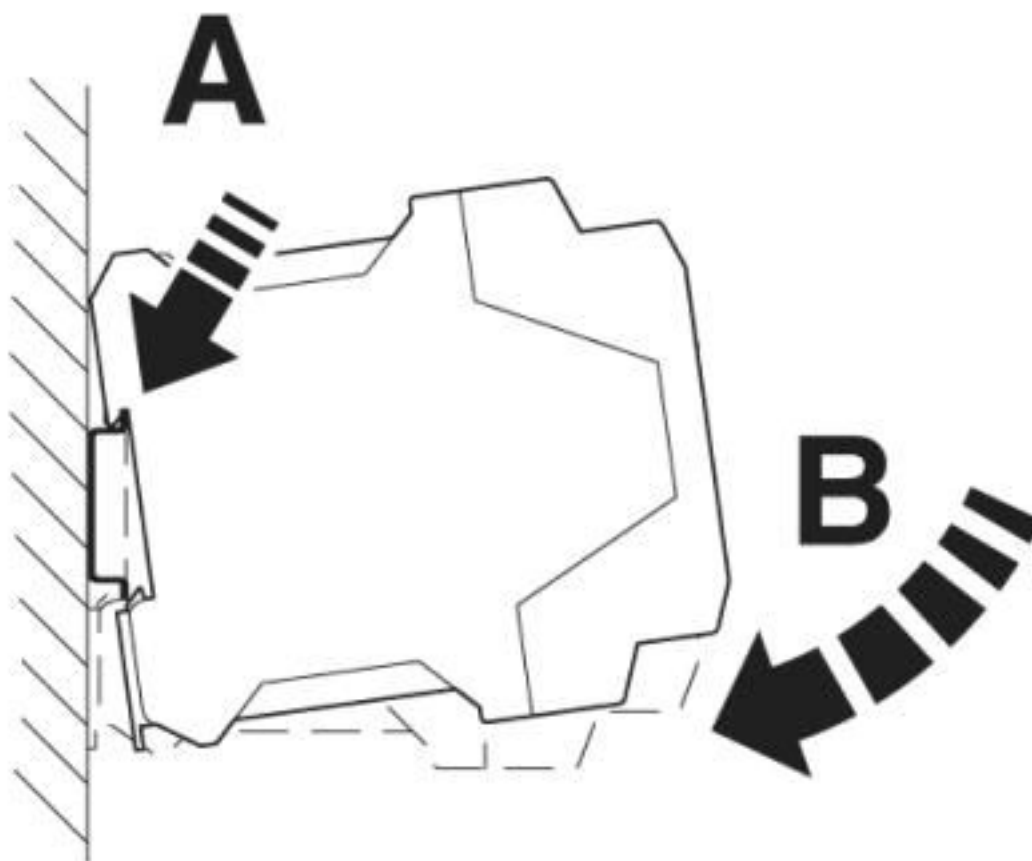


Circuit diagram



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Schematic diagram



Mounting

Classifications

eCl@ss

eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19060500
eCl@ss 7.0	19060503
eCl@ss 8.0	19060503
eCl@ss 9.0	19060503

ETIM

ETIM 3.0	EC000310
ETIM 4.0	EC000740
ETIM 5.0	EC001478
ETIM 6.0	EC001478

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Classifications

ETIM

ETIM 7.0	EC001478
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UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	43201553
UNSPSC 18.0	43201553
UNSPSC 19.0	43201553
UNSPSC 20.0	43201553
UNSPSC 21.0	43201553

Accessories

Accessories

Remote control software

License - MGuard SECURE VPN CLIENT LIC - 2702579



License for mGuard Secure VPN Client v11.x

Surge protection for information technology

Surge protection device - DT-LAN-CAT.6+ - 2881007



Surge protection in accordance with Class E_A (CAT6_A), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE+) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

Surge protection device - DT-TELE-RJ45 - 2882925



Attachment plug with surge protection for analog and digital telecommunications interfaces (VDSL up to 50 Mbps). Connection: RJ45 (RJ12/RJ11) and screw terminal block (COMBICON). Alternatively, can be snapped onto a DIN rail.

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