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Router - TC DSL ROUTER X400 A/B - 2902709

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Industrial ADSL broadband router/modem with integrated firewall and NAT function. 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 and DSL modem (default)

RoHS

D H W Ethernet DSL dnp

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 679909
GTIN	4046356679909
Custom tariff number	85176200
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

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Technical data

Dimensions

Width	45 mm
Height	99 mm
Depth	112 mm

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	$\leq$ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Degree of protection	IP20

General

Electrical isolation	VCC//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	294.9 g
Housing material	PA 6.6-FR
Color	green
MTTF	699 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	379 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	64 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	$\leq$ 5 km
Data rate	$\leq$ 25 Mbps (Annex A/B, downstream from Internet)
	$\leq$ 1 Mbps (Annex A/B, upstream to Internet)

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Interfaces

	≤ 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
Auxiliary protocols	ARP, DHCP, PING (ICMP), SNMP V1, SMTP
Serial transmission speed	10/100 Mbps, auto negotiation

Function

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

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

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"

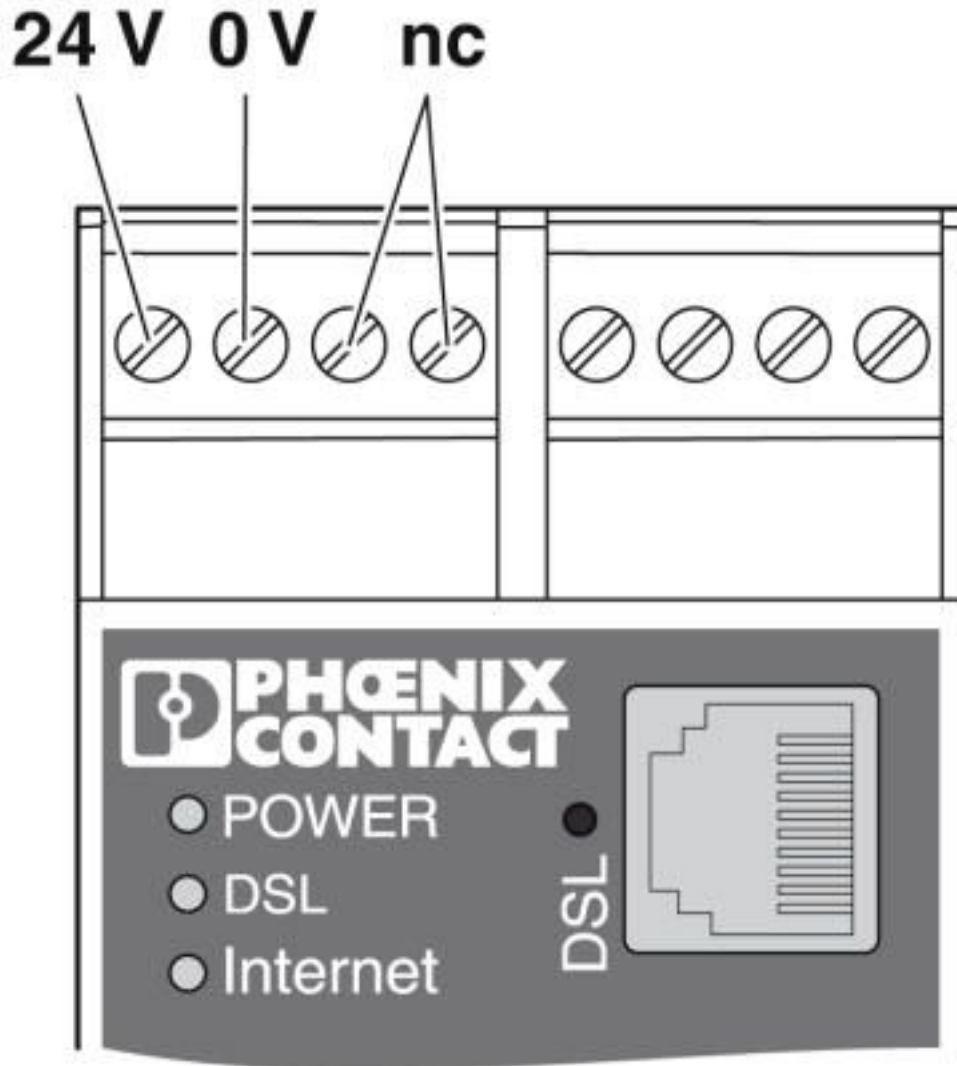## Drawings

Router - TC DSL ROUTER X400 A/B - 2902709
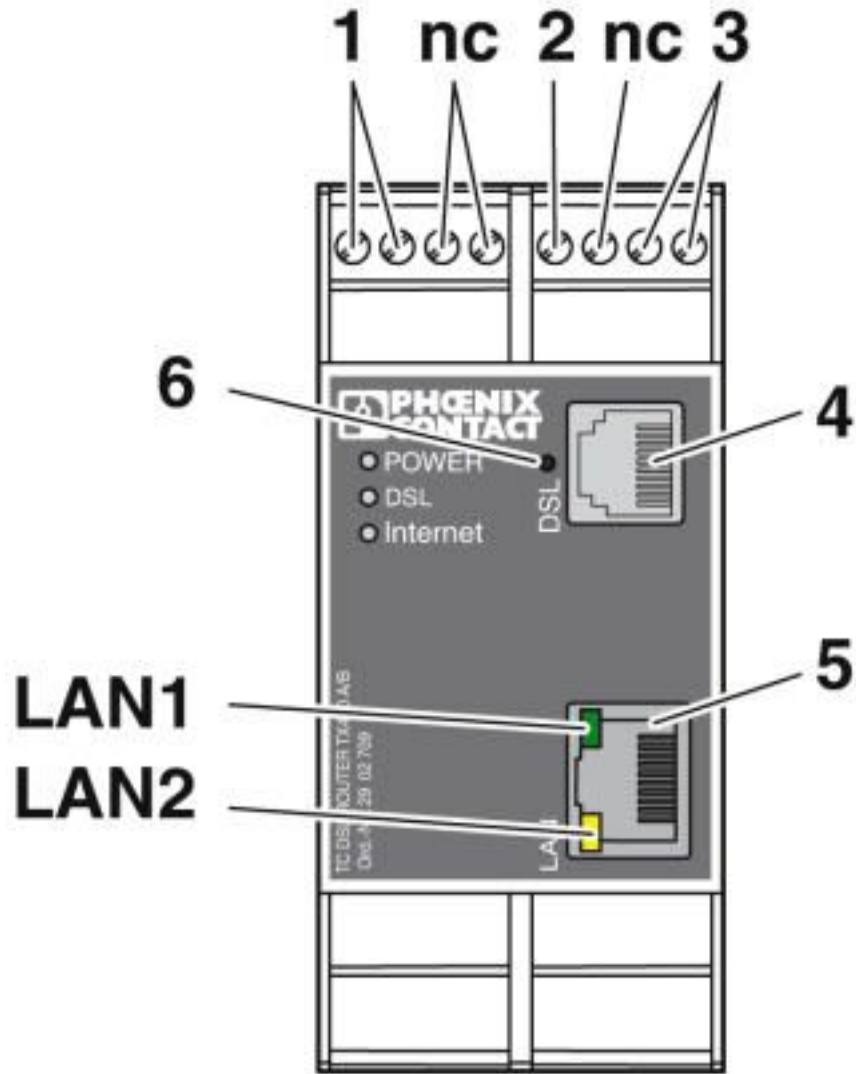
Schematic diagram

Front view

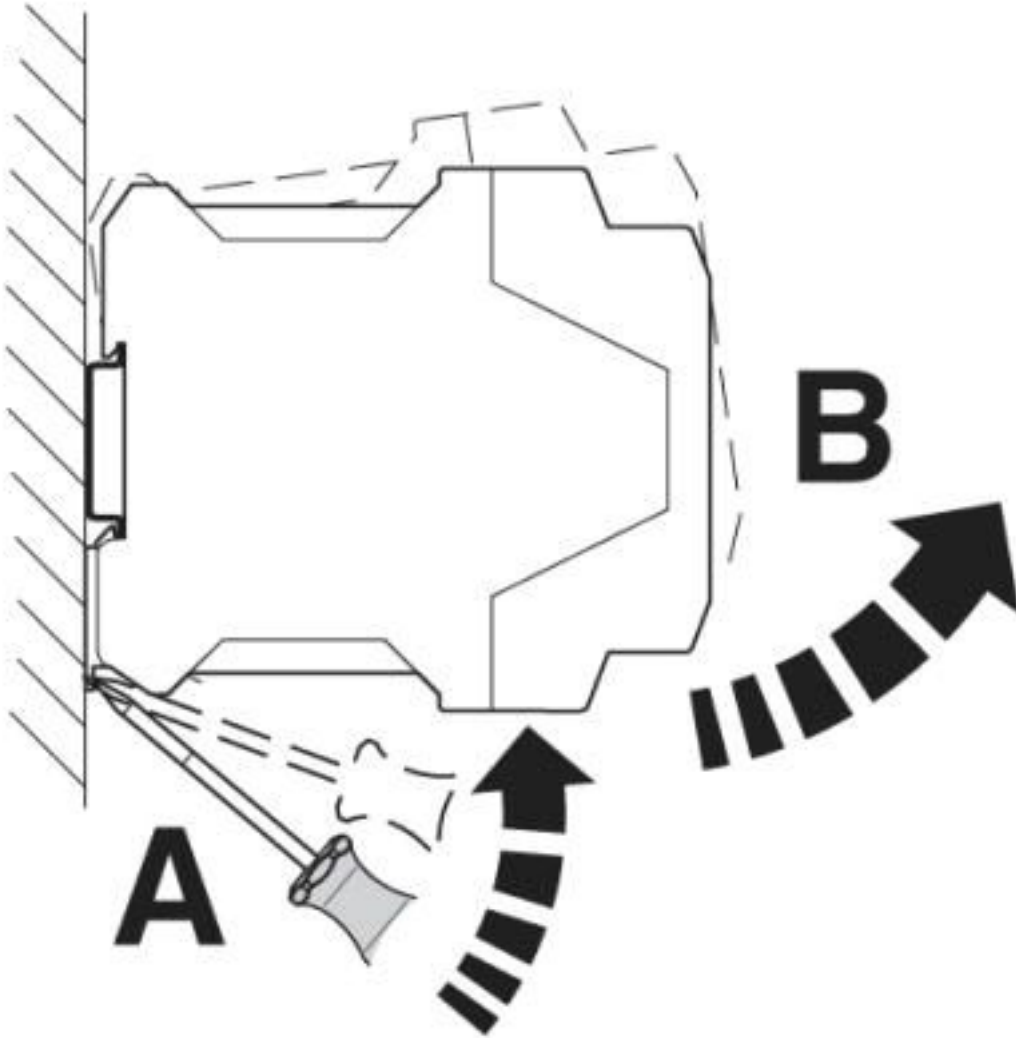# Router - TC DSL ROUTER X400 A/B - 2902709

Schematic diagram

24 V   0 V   nc

Device connections

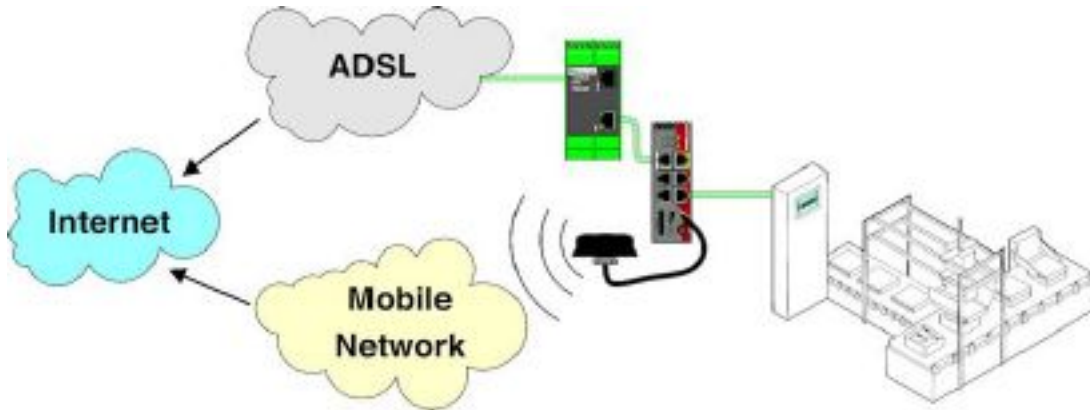# Router - TC DSL ROUTER X400 A/B - 2902709

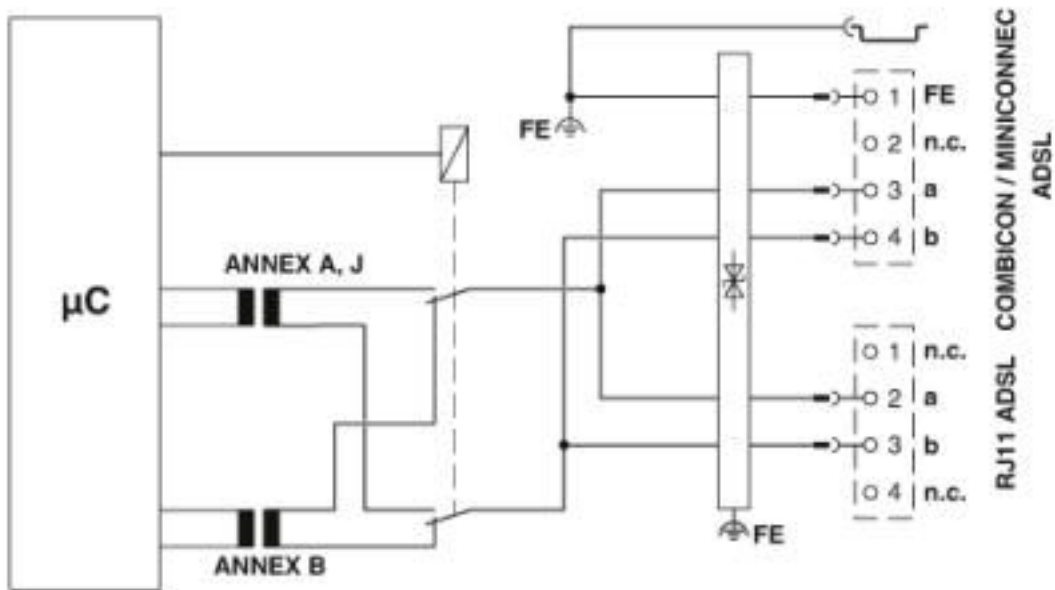Schematic diagram

Removal

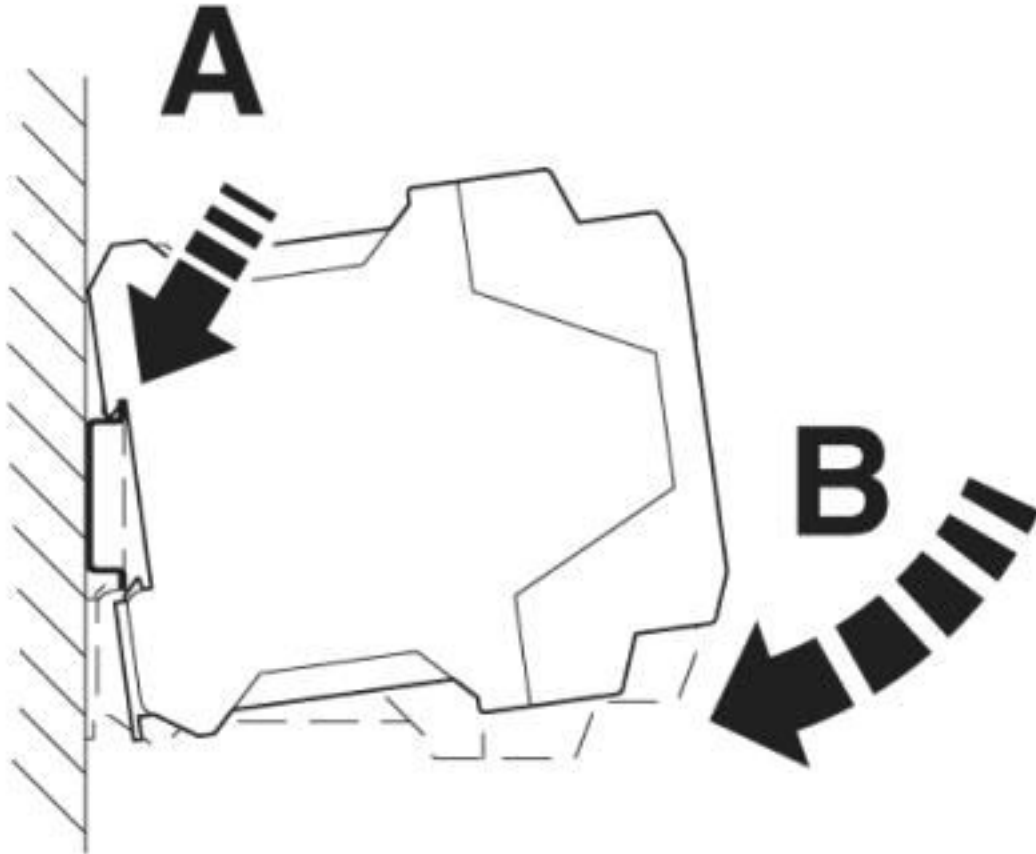# Router - TC DSL ROUTER X400 A/B - 2902709

Application drawing

Redundant Internet connection via ADSL and the mobile network

Circuit diagram

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Schematic diagram

Mounting

Classifications

eCl@ss

eCl@ss 10.0.1	19060590
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	19060590
eCl@ss 8.0	19060590
eCl@ss 9.0	19060590

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Classifications

ETIM

ETIM 3.0	EC000310
ETIM 4.0	EC000740
ETIM 5.0	EC000740
ETIM 6.0	EC000740
ETIM 7.0	EC000740

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	43222628
UNSPSC 18.0	43222628
UNSPSC 19.0	43222628
UNSPSC 20.0	43222628
UNSPSC 21.0	43222628

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.

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Accessories

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.