

# TC DSL ROUTER X400 A/B - Router



2902709

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

- DynDNS
- 10/100 Mbps automatic detection
- Annex A/Annex B switchover via web-based management
- NAT table
- Configuration via web-based management
- Firewall
- High electromagnetic compatibility
- Can be used worldwide
- Switchover between DSL router and DSL modem (default)

## Commercial data

Item number	2902709
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DNC432
GTIN	4046356679909
Weight per piece (including packing)	294.9 g
Weight per piece (excluding packing)	294.9 g
Customs tariff number	85176200
Country of origin	DE

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## Technical data

### Product properties

Product type	Modem
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%)

### Security functions

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

### Electrical properties

Electrical isolation	VCC//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 <sub>rms</sub> (50 Hz, 1 min.)
Test voltage data interface/power supply	1.5 kV <sub>rms</sub> (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
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### Connection data

#### Supply

Tightening torque	0.56 Nm ... 0.79 Nm
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### 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

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	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

## 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
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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 EMC Directive 2014/30/EU
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## Mounting

Mounting type	DIN rail mounting
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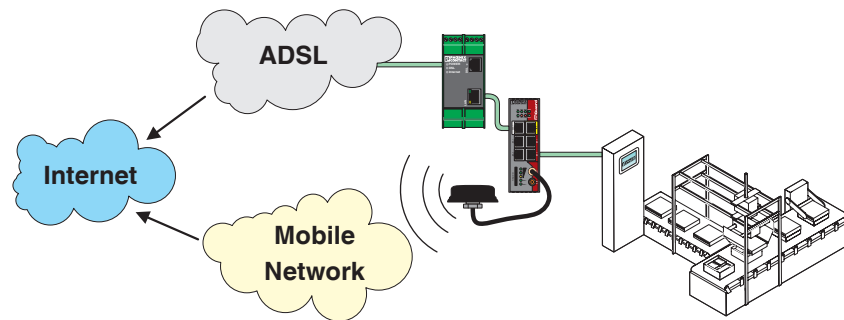
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## Drawings

Application drawing



Redundant Internet connection via ADSL and the mobile network

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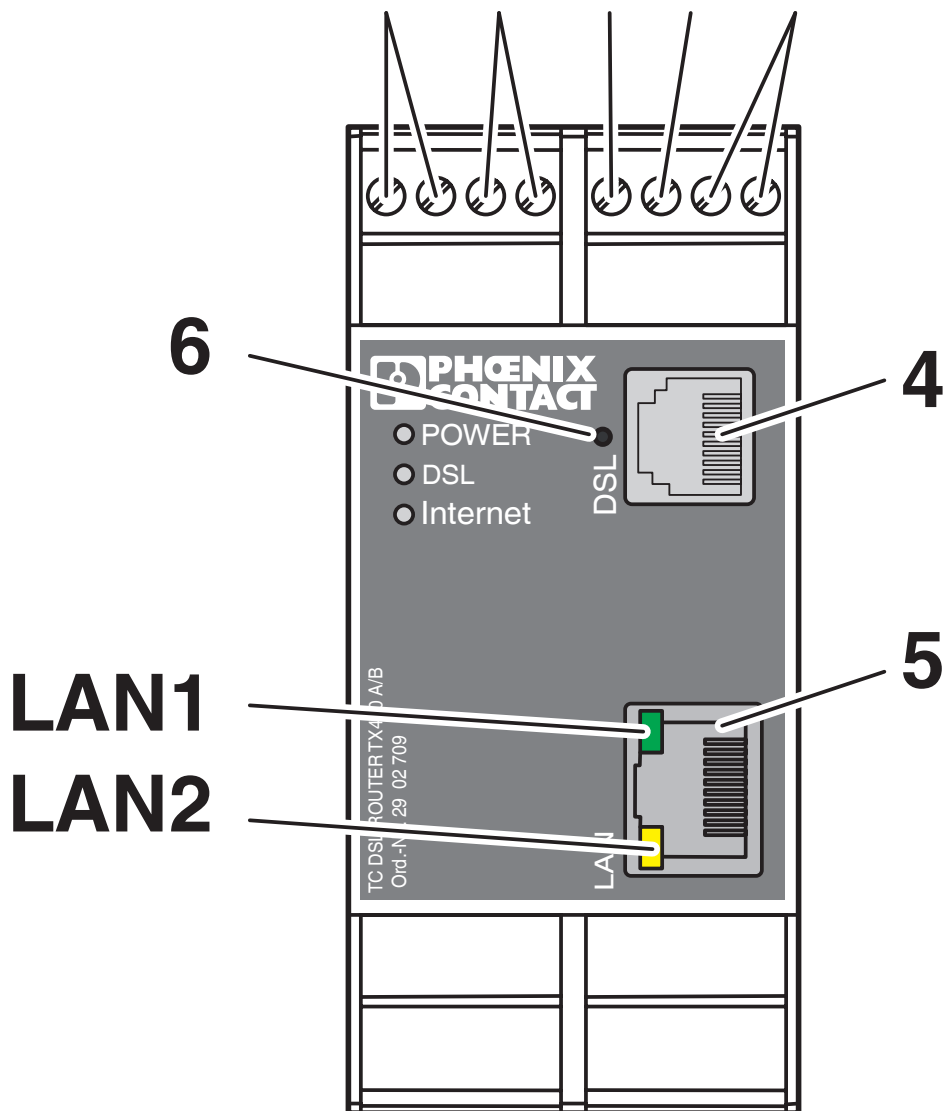
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Schematic diagram

**1 nc 2 nc 3**

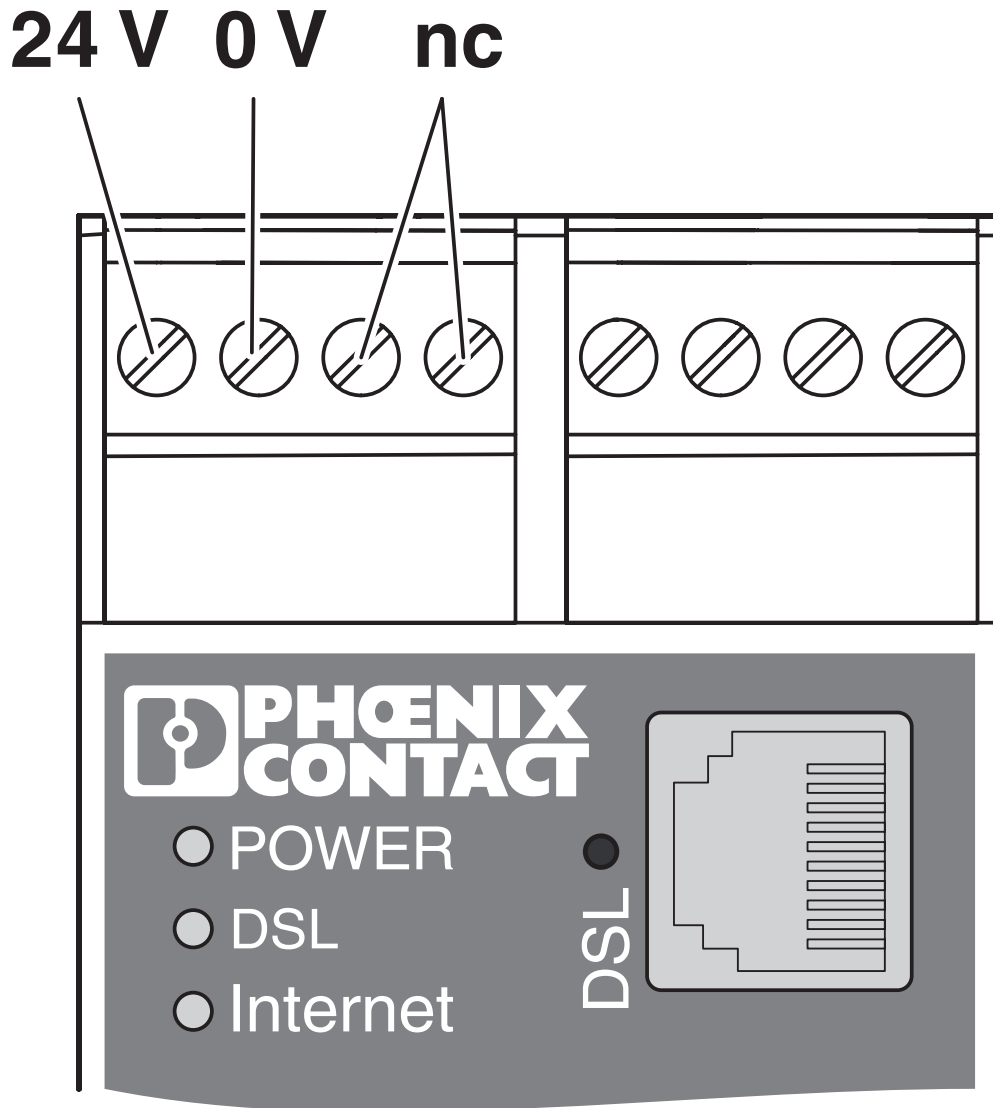


Front view

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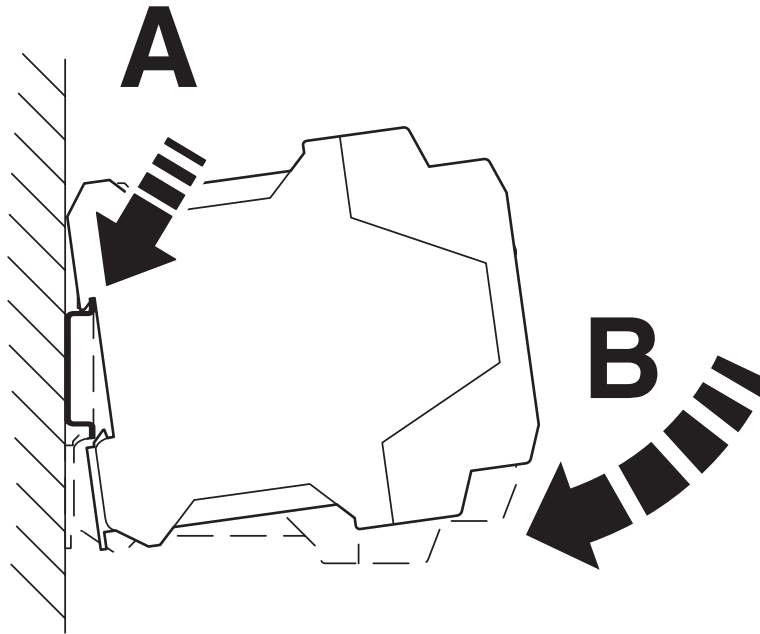
<https://www.phoenixcontact.com/us/products/2902709>

Schematic diagram



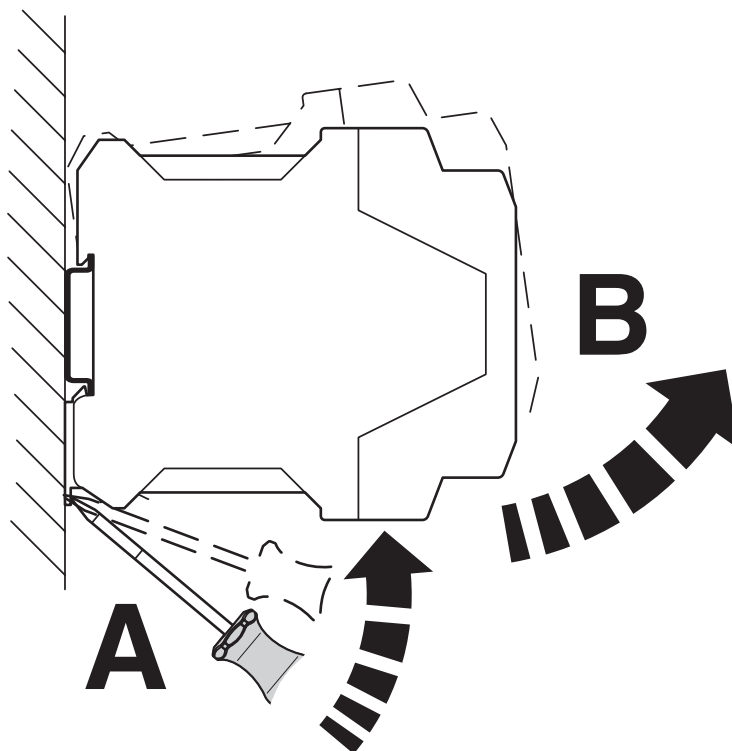
Device connections

Schematic diagram



Mounting

Schematic diagram



Removal

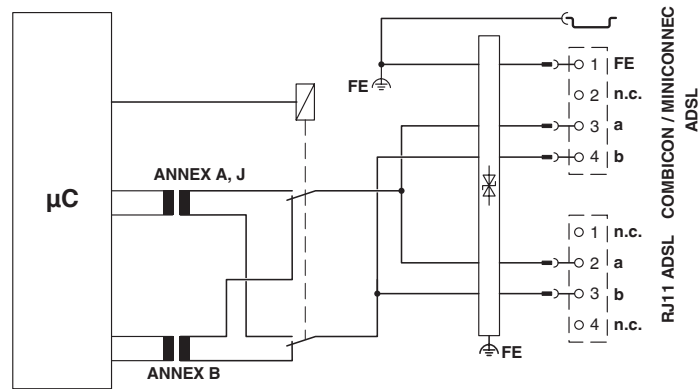
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Circuit diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	43222628
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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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