

SMS relay - TC MOBILE I/O X200-4G - 1038567

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SMS relay and signaling module, European version, monitor analog and digital values via cellular network, switch relay outputs remotely, communication via SMS or cellular network data connection (e-mail transmission, app), supply voltage 10 V ... 60 V DC

Product Description

The TC MOBILE I/O X200-4G compact electronic alarm annunciator is the successor to the TC MOBILE I/O X200 (2903805) and PSI-MODEM-SMS-RELAY/6ADI/4DO/DC (2313520) SMS relays. The electronic alarm annunciator monitors digital and analog values via the cellular network. It also switches relay outputs remotely. The device offers numerous helpful software functions, such as SMS message chain, SMS in the event of a voltage drop, sending logbooks via e-mail, and different user roles. A USB connection to a computer with a web browser is all that is needed for configuration.

Your advantages

- ✓ Future-proof 4G technology (LTE CAT1), simultaneous use of well-established 2G networks (GSM, GPRS, EDGE)
- ✓ Alerts via SMS in the field and, for example, via e-mail in the control room
- ✓ Message chain for sending an alert to the relevant service technician
- ✓ Alarm generation on voltage failure via SMS
- ✓ Free switching via phone call
- ✓ Cost control for prepaid cards
- ✓ Remote commands to avoid on-site servicing: switching, configuration commands, and logbook transmission
- ✓ Compact design also for domestic installations (4 HP, DIN 43880)
- ✓ Mounting on DIN rail or on the wall



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626592046

Technical data

Dimensions

Width	72 mm
Height	90 mm
Depth	62 mm

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Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °C (SMS mode only, note the derating information in the technical documentation for data connection)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	0 % ... 95 %
Altitude	2000 m
Degree of protection	IP20

General

Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
Net weight	240.1 g
Housing material	Polycarbonate
MTTF	674 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	324 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	130 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Power supply

Supply voltage range	10 V DC ... 60 V DC
Max. current consumption	80 mA
Typical current consumption	50 mA (24 V DC)
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 2.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 2.5 mm²
Conductor cross section flexible max.	2.50 mm²
Conductor cross section flexible min.	0.20 mm²
Conductor cross section solid max.	2.50 mm²
Conductor cross section solid min.	0.20 mm²
Conductor cross section AWG max.	14
Conductor cross section AWG min.	24
Stripping length	6.5 mm

Interfaces

Interface 1	USB 2.0
Connection method	Mini-USB type B, 5-pos.
Transmission length	≤ 3 m (only for configuration and diagnostics)

Wireless interface

Interface description	GSM / GPRS / EDGE / LTE (FDD)
Frequency range	800 MHz (LTE B20)
	1800 MHz (LTE B3)
	2600 MHz (LTE B7)
	850 MHz (2 W (EGSM))
	900 MHz (2 W (EGSM))
	1800 MHz (1 W (EGSM))

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Technical data

Wireless interface

	1900 MHz (1 W (EGSM))
GPRS	Multislot Class 33
EDGE	Multislot Class 33
LTE	CAT1

Digital outputs

Output name	Relay output
Number of outputs	4
Contact type	N/O contact
Minimum switching voltage	100 mV
Maximum switching voltage	60 V DC
	30 V AC
Limiting continuous current	6 A
Switching capacity	100 W (Power Source PS2, $P_{out} \leq 100$ W)
Electrical service life	30000 cycles

Digital inputs

Description of the input	Digital input
Number of inputs	4
Switching threshold "0" signal in reference to U_N	≤ 0.3
Switching threshold "1" signal in reference to U_N	≥ 0.7

Analog inputs

Description of the input	Analog input
Number of inputs	2
Input signal	Current or voltage
Voltage input signal	0 V DC ... 60 V DC
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA (configurable)
Input impedance	600 k Ω (Voltage inputs)
	50 Ω (Current inputs)
Precision	± 0.1 %
Resolution	15 bit

Conformance/approvals

Designation	CE
Identification	CE-compliant
Designation	Wireless approval, Europe
Additional text	RED 2014/53/EU

Standards and Regulations

Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
Standards/regulations	EN 61000-4-2

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Standards and Regulations

Contact discharge	± 6 kV
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	26 MHz ... 6 GHz
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
Signal	± 1 kV (Data line, asymmetrical)
Standards/regulations	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Standards/regulations	EN 50360
	EN 50121-4

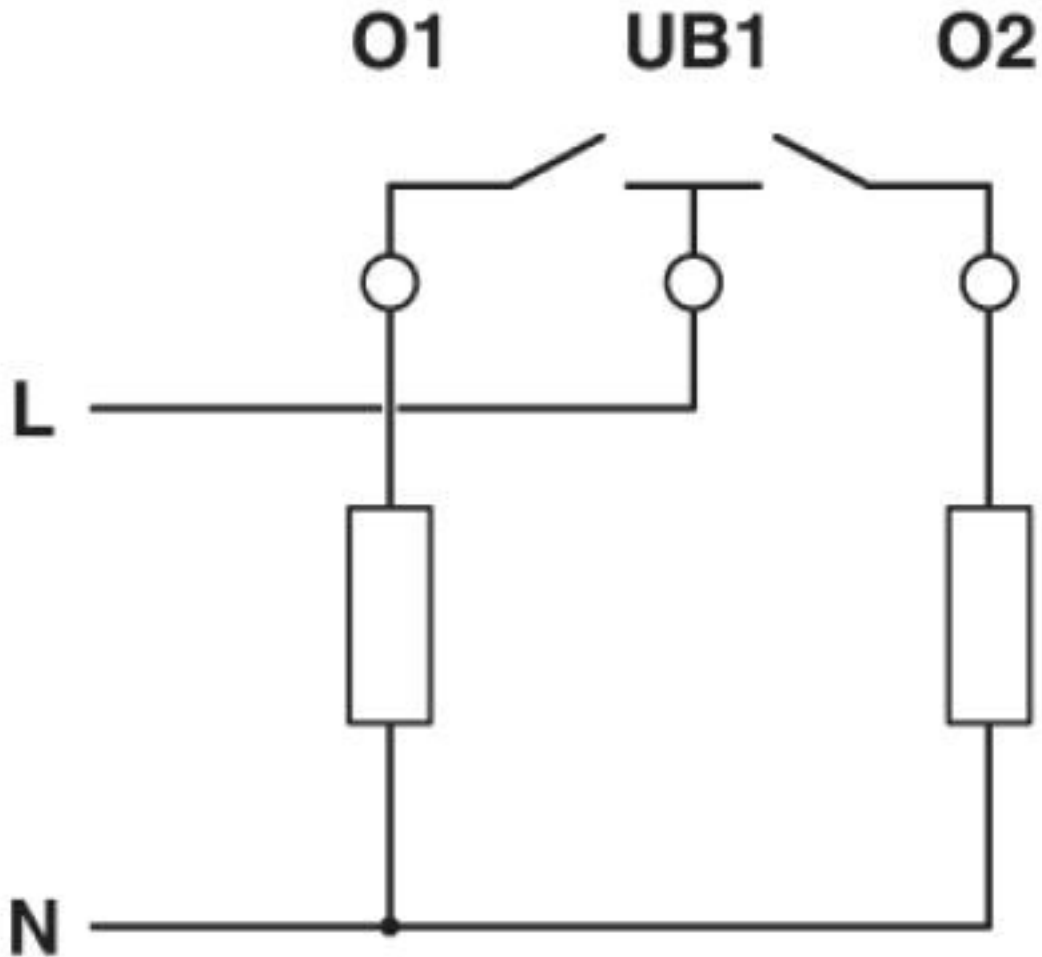
Environmental Product Compliance

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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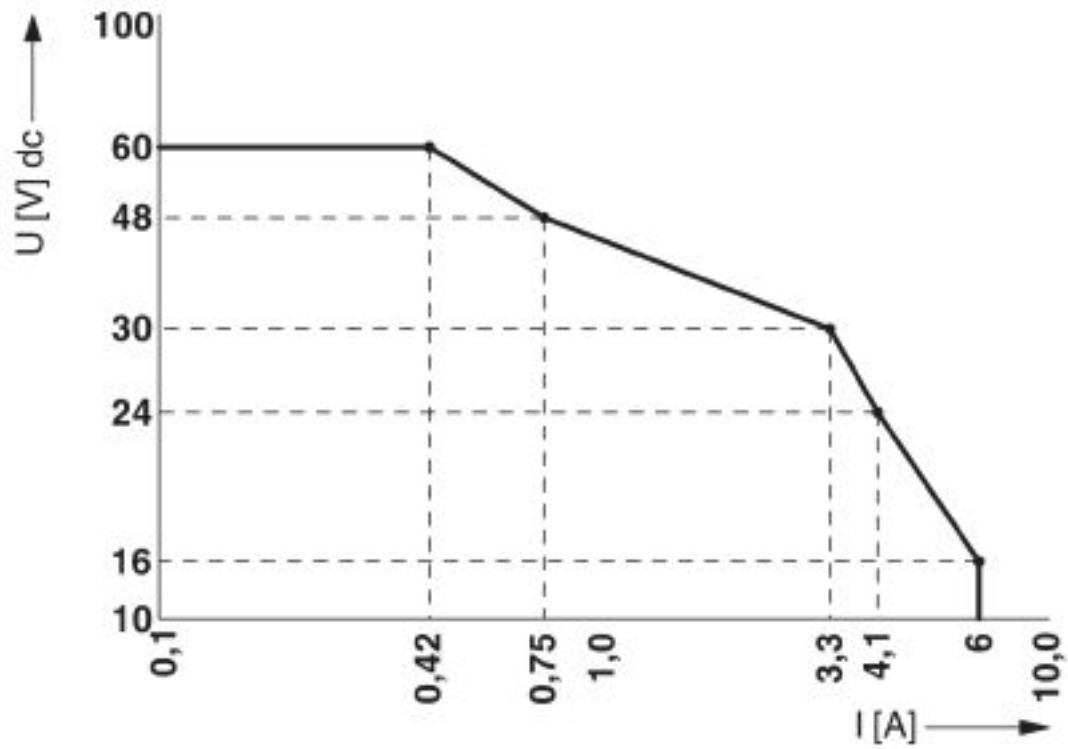
Connection diagram



Floating relay contacts

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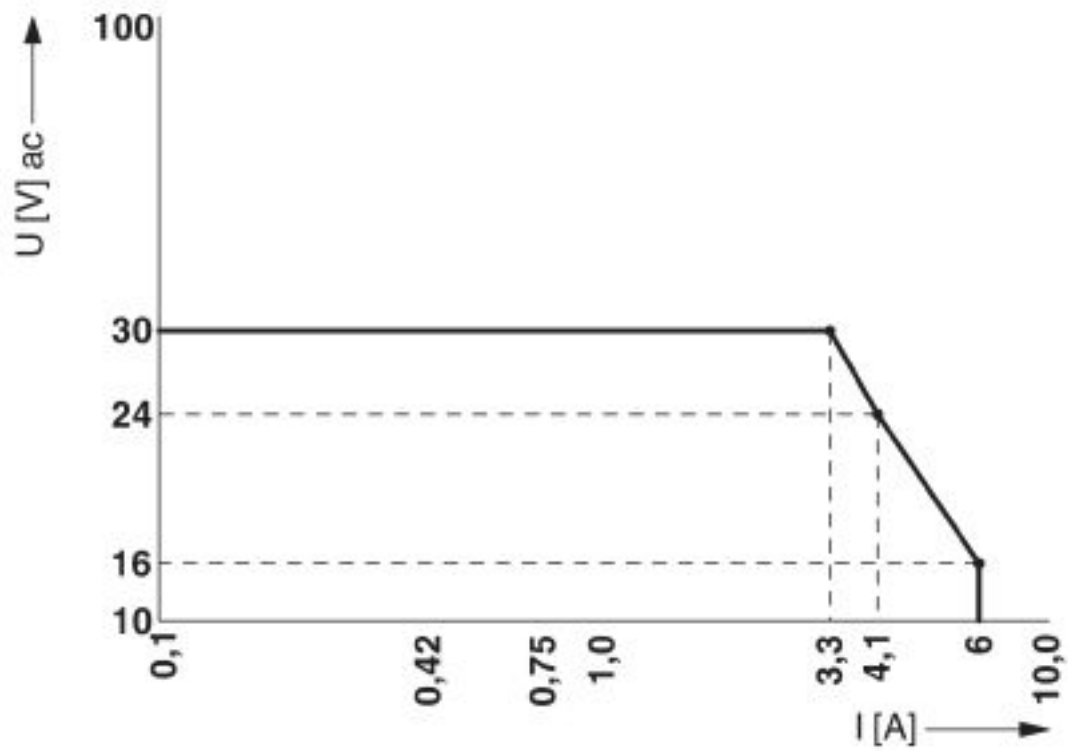
Diagram



Relay load curve DC

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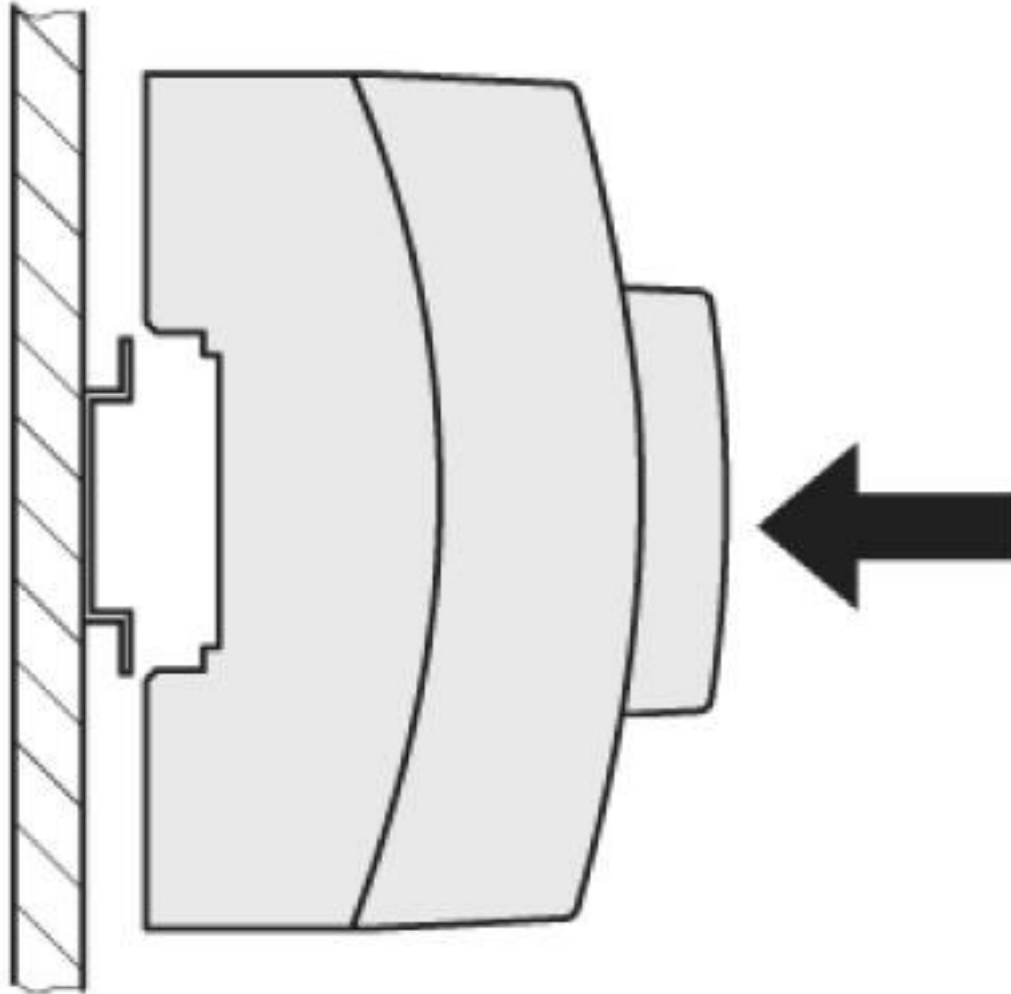
Diagram



Relay load curve AC

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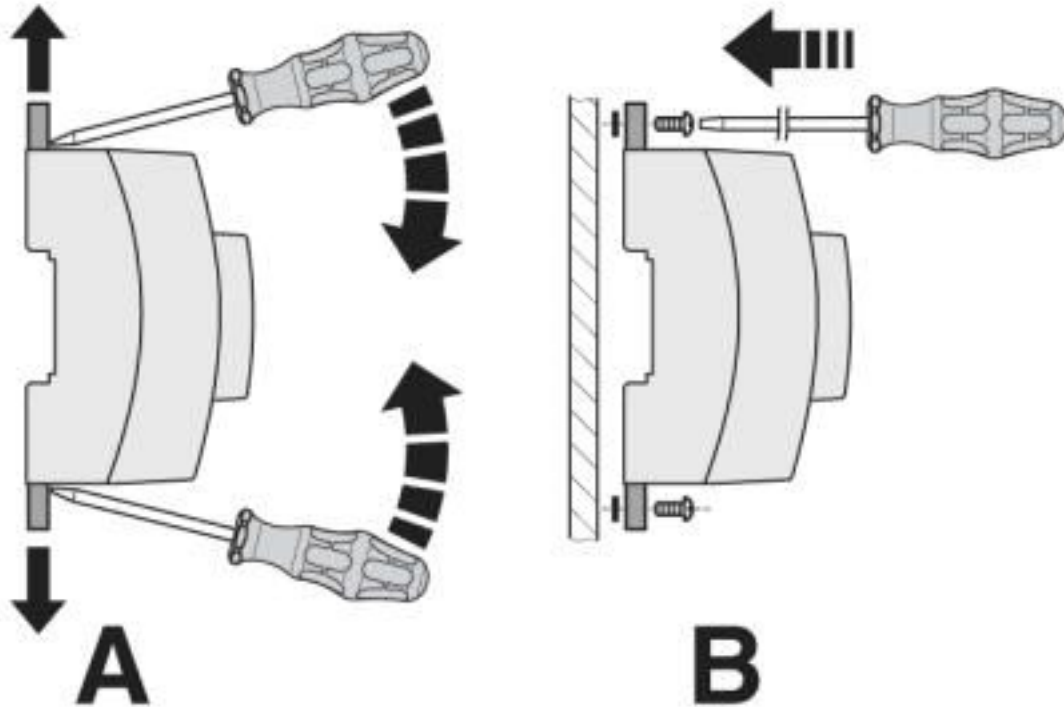
Schematic diagram



DIN rail mounting

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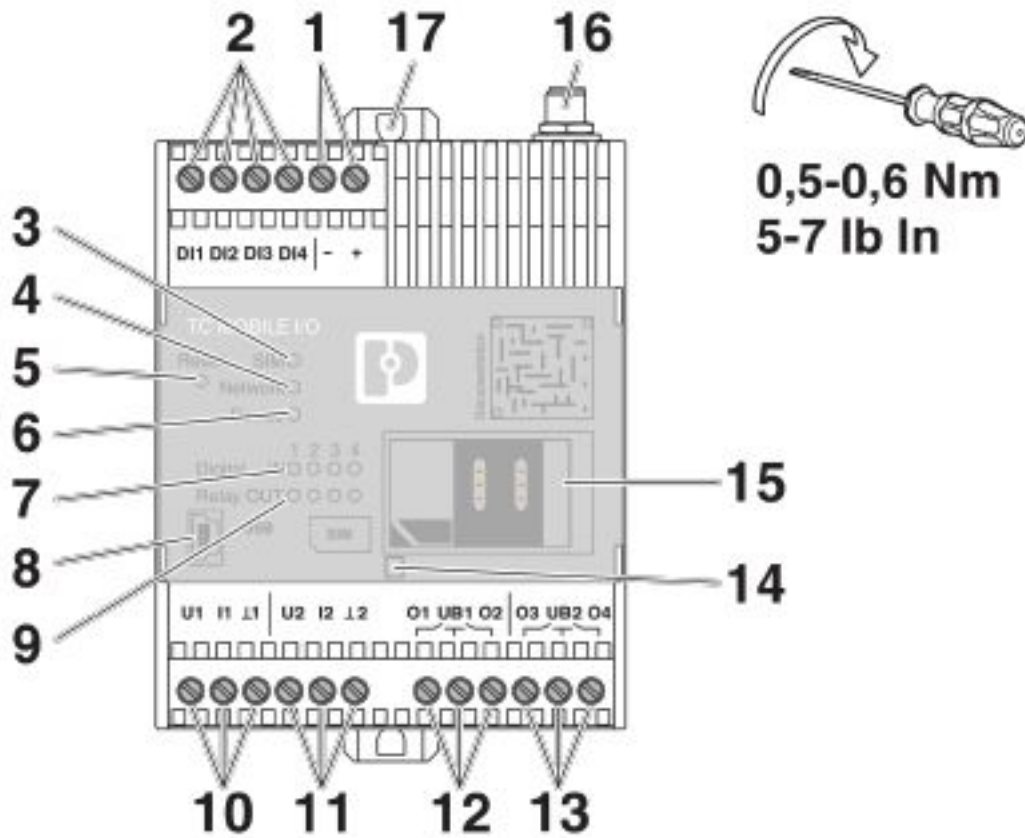
Schematic diagram



Wall mounting

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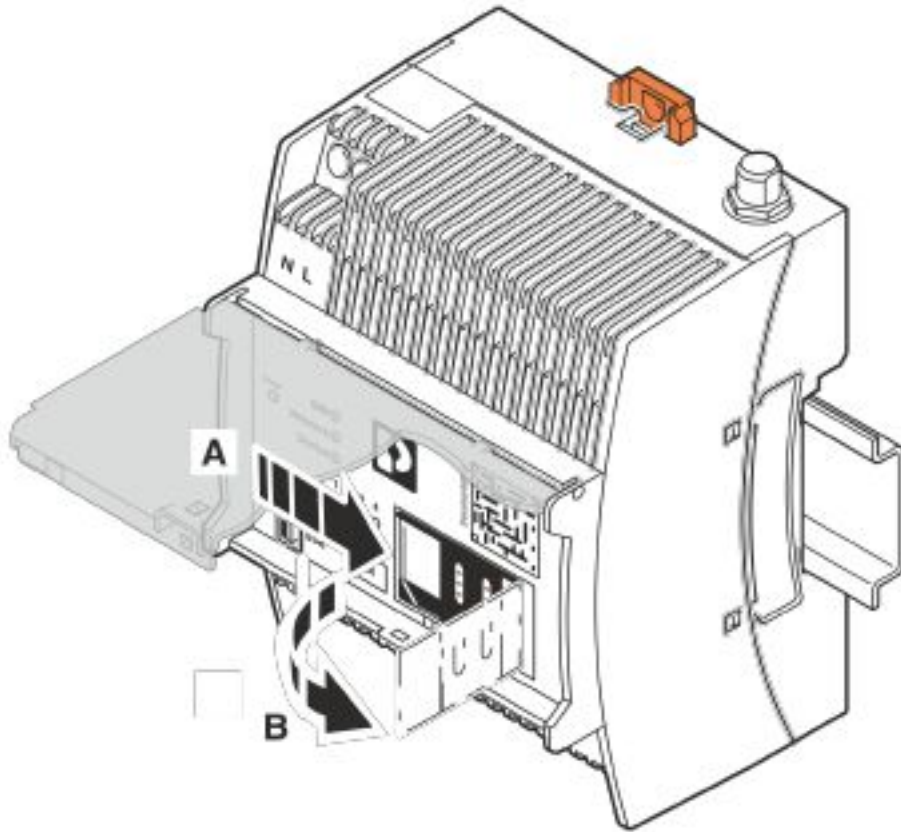
Schematic diagram



Front view

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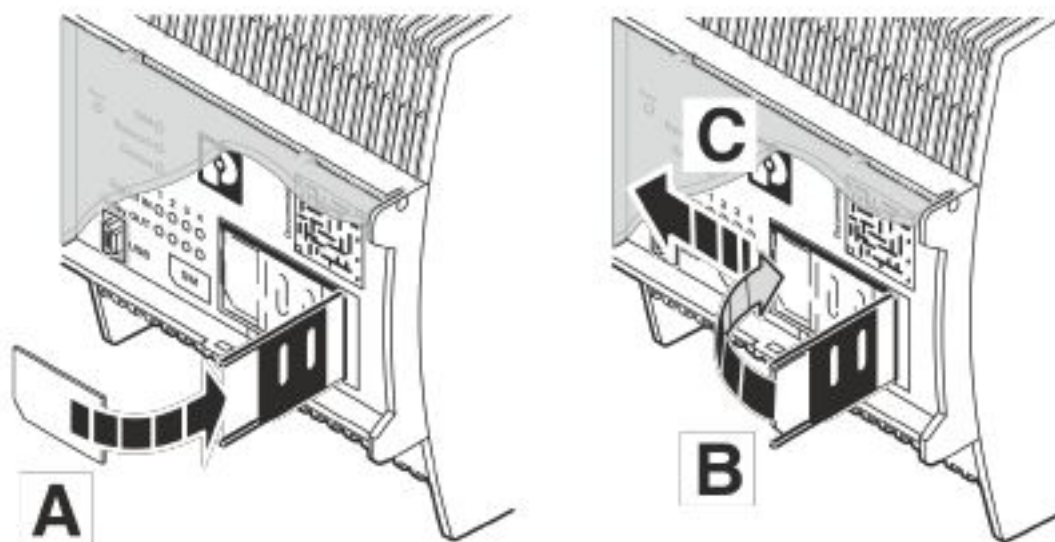
Schematic diagram



Insert the SIM card

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Schematic diagram



Insert the SIM card

Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 11.0	27242608
eCl@ss 4.0	27250312
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	27242200
eCl@ss 6.0	19179200
eCl@ss 7.0	19179290
eCl@ss 8.0	19179290
eCl@ss 9.0	27242608

ETIM

ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008

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Classifications

UNSPSC

UNSPSC 12.01	39121008
UNSPSC 13.2	43222604
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Accessories

Accessories

Antenna

Antenna - TC ANT MOBILE WALL 5M - 2702273



Multiband cellular antenna with mounting bracket for outdoor installation, 5 m antenna cable with SMA circular connector, suitable for LTE/4G

Coaxial adapter

Adapter - RAD-ADP-SMA/F-SMA/M-90 - 2917324



Antenna adapter, frequency range: 0.3 GHz ... 6 GHz, connection: SMA (female) -> SMA (male), angled 90°

Coaxial cable

Antenna cable - PSI-CAB-GSM/UMTS-10M - 2900981



Cellular antenna cable, 10 m in length, SMA (male) -> SMA (female), 50 ohm impedance

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Accessories

Antenna cable - PSI-CAB-GSM/UMTS- 5M - 2900980



Cellular antenna cable, 5 m in length, SMA (male) -> SMA (female), 50 ohm impedance

Power supply

Power supply unit - STEP-PS/ 1AC/24DC/0.5 - 2868596



Primary-switched STEP POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/0.5 A

Programming cable

USB cable - CABLE-USB/MINI-USB-3,0M - 2986135



USB connecting cable: USB plug type A to USB plug type Mini-B; length: 3 m

Surge protection for transceiver systems

Surge protection device - CSMA-LAMBDA/4-2.0-BS-SET - 2800491



Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces. Connection: Male/female SMA connectors.