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SMS relay - TC MOBILE I/O X200 AC - 2903806

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Successor to the SMS relay: monitor digital values via the mobile communication network and switch relay outputs remotely. Communication is via SMS or GPRS (e-mail). Supply voltage range of 93 V ... 250 V AC.

Product Description

The compact TC MOBILE I/O X200 AC signaling system is the successor to the PSI-MODEM-SMS-RELAY/6 DI/4DO/AC SMS relay (Order No. 2313513) and is used to monitor analog and digital values via the mobile communication network and switch relay outputs remotely. A USB connection to a computer and a web browser is all that is needed for configuration. The device features numerous helpful software functions, such as mobile communication diagnostics, sending of log books via e-mail, and different user roles.

Product Features

- ✔ Notification via SMS on change of status at input
- ✔ SMS status query of all inputs and outputs
- ✔ SMS relay for remote control of outputs
- ✔ Alarm generation on voltage failure via SMS
- ✔ GSM mobile phone network: 850, 900, 1800, and 1900 MHz
- ✔ Switching of outputs for a predefined time
- ✔ Communication via SMS and e-mail
- ✔ Configuration via USB and web browser
- ✔ Compact design: 4 pitches (DIN 43880)



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	260.0 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Note

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Technical data

Note

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

Width	72 mm
Height	90 mm
Depth	62 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °C (for derating, see technical documentation)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	0 % ... 95 %
Altitude	2000 m
Degree of protection	IP20

General

Standards/regulations	EN 50121-4
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Net weight	248 g
Housing material	Polycarbonate
MTTF	144 Years (SN 29500 standard, temperature 25°C, operating cycle 21 % (5 days a week, 8 hours a day))
	301 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day))
	743 Years (SN 29500 standard, temperature 40°C, operating cycle 100 % (7 days a week, 24 hours a day))
Conformance	CE-compliant
ATEX	# II 3 G Ex nA nC IIC T4 Gc X (Please follow the special installation instructions in the documentation!)

Power supply

Supply voltage range	93 V AC ... 250 V AC (47.5 Hz ... 63 Hz)
Typical current consumption	30 mA (230 V AC)
	10 mA (stand by)

Serial interface

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

Radio interface

Interface description	GSM
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Technical data

Radio interface

Frequency	850 MHz (2 W (EGSM))
	900 MHz (2 W (EGSM))
	1800 MHz (1 W (EGSM))
	1900 MHz (1 W (EGSM))
EDGE	Multislot Class 10

Digital outputs

Output name	Relay output
Number of outputs	4
Contact type	N/O contact
Minimum switching voltage	5 V
Maximum switching voltage	250 V AC
	125 V DC
Limiting continuous current	5 A
Switching capacity	750 VA
Electrical service life	150000 cycles (5 A / 30 V DC)
	150000 cycles (3 A / 120 V AC)
	30000 cycles (5 A/250 V AC)

Digital inputs

Description of the input	Digital input
Number of inputs	4
Switching level "0" signal	0 V AC ... 50 V AC
Switching level "1" signal	90 V AC ... 250 V AC

Classifications

eCl@ss

eCl@ss 4.0	27250312
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	19179290

ETIM

ETIM 3.0	EC000310
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Classifications

ETIM

ETIM 4.0	EC000310
ETIM 5.0	EC001604

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	43201553

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

ATEX

Approvals submitted

Approval details

UL Listed

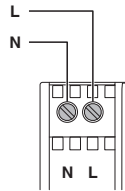
cUL Listed

cULus Listed

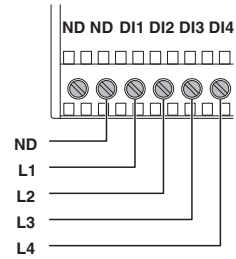
Drawings

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Connection diagram

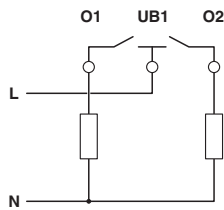


Connection diagram



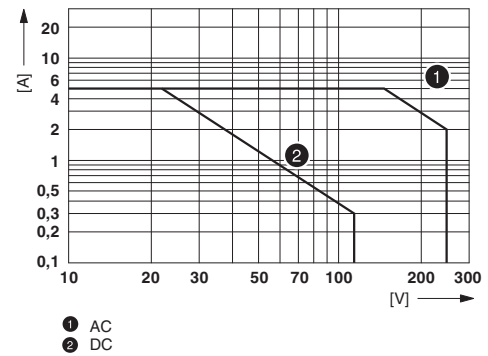
Connecting the supply voltage

Connection diagram



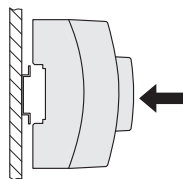
Floating relay contacts

Diagram



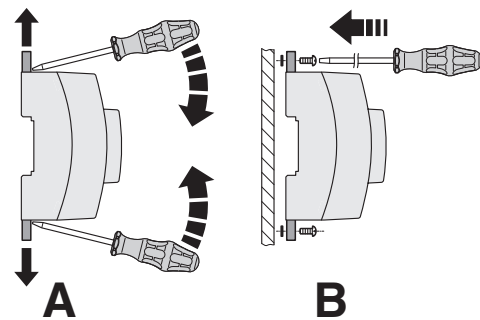
Relay load curve - ohmic load

Schematic diagram



DIN rail mounting

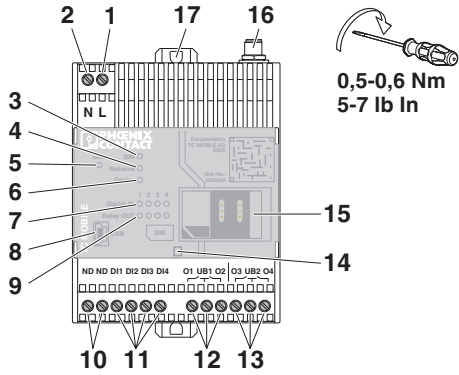
Schematic diagram



Wall mounting

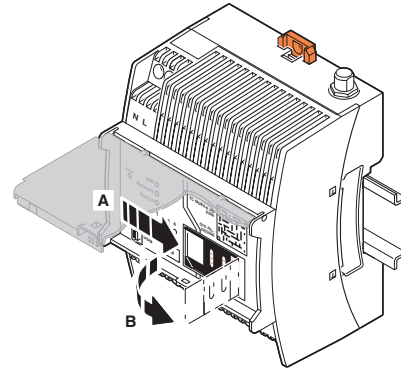
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Schematic diagram



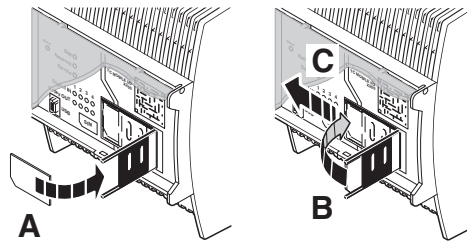
Front view

Schematic diagram



Insert the SIM card

Schematic diagram



Insert the SIM card