Signaling system - TC MOBILE I/O X300 - 2903807

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Compact signaling system for cellular networks to monitor analog and digital values as well as to switch relay outputs remotely. Communication is via the ODP protocol to an ODP server using GPRS. Supply voltage range of 10 V ... 60 V DC.

Your advantages

- GPRS messaging system for remote control of outputs
- Alarm generation on voltage failure via SMS
- GSM mobile phone network: 850, 900, 1800, and 1900 MHz
- Communication via ODP protocol
- Data transmission either online or as historical values with time stamp
- Two analog inputs
- Configuration via USB and web browser
- Compact design also for domestic installations (4 HP, DIN 43880)
- Mounting on DIN rail or on the wall

Key Commercial Data

Packing unit	1
GTIN	4 046356 768856
GTIN	4046356768856
Custom tariff number	85176200

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
	Use in potentially explosive areas is not permitted in China.

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Technical data

Dimensions

Width	72 mm
Height	90 mm
Depth	62 mm

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 EMC Directive 2014/30/EU
Net weight	243 g
Housing material	Polycarbonate
MTTF	591 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	302 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	125 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Power supply

Supply voltage range	10 V DC ... 60 V DC
Max. current consumption	180 mA
Typical current consumption	140 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

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Technical data

Wireless interface

Interface description	GSM / GPRS
Frequency range	850 MHz (2 W (EGSM))
	900 MHz (2 W (EGSM))
	1800 MHz (1 W (EGSM))
	1900 MHz (1 W (EGSM))
GPRS	Multislot Class 10

Function

Web-based management	yes

Digital outputs

Output name	Relay output
Number of outputs	4
Contact type	N/O contact
Minimum switching voltage	5 V
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	5000 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 kΩ (Voltage inputs)
	50 Ω (Current inputs)
Precision	± 0.1 %
Resolution	15 bit

Standards and Regulations

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Standards and Regulations

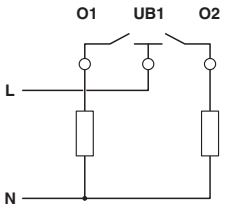
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Standards/regulations	EN 61000-4-2
Contact discharge	± 6 kV
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	26 MHz ... 6 GHz
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
Signal	± 1 kV (Data line, asymmetrical)
Standards/regulations	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Conducted noise emission	Class B, area of application: Industry and residential
Standards/regulations	EN 50360
	EN 50121-4

Environmental Product Compliance

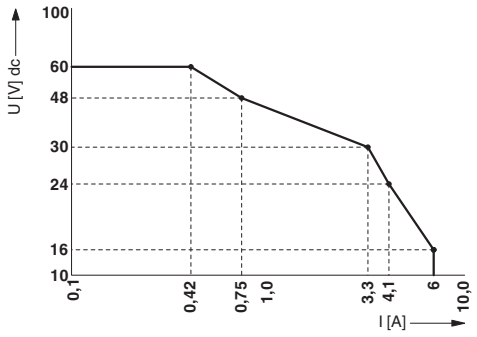
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Connection diagram



Diagram



Relay load curve DC

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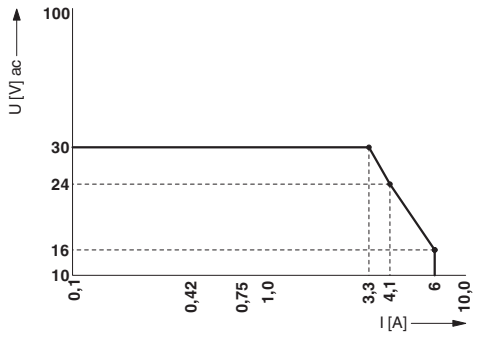
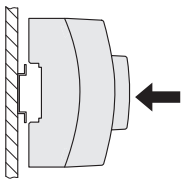
Diagram



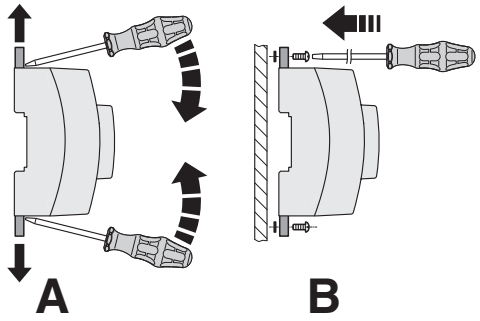
Relay load curve AC

Schematic diagram



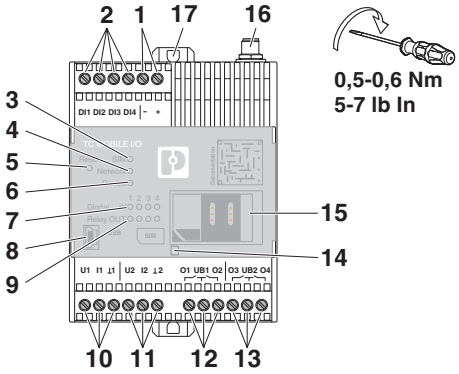
DIN rail mounting

Schematic diagram



Wall mounting

Schematic diagram



Front view

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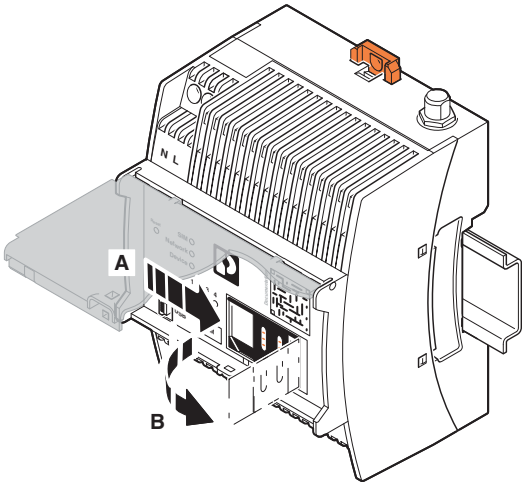
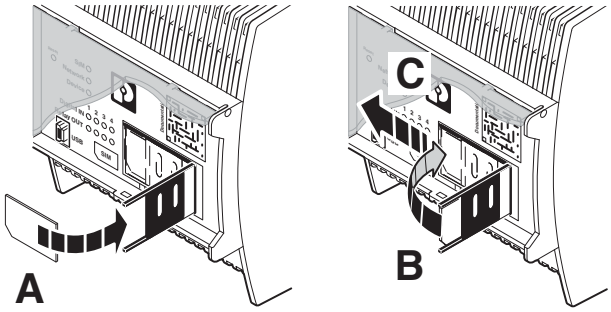
Schematic diagram



Insert the SIM card

Schematic diagram



Insert the SIM card

Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 11.0	27242608
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27242200
eCl@ss 5.1	27242200
eCl@ss 6.0	19179200
eCl@ss 7.0	19179290
eCl@ss 9.0	27242608

ETIM

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

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Classifications

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	43222604
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602