

Data sheet

16457.2 GSM-PRO2E-4G-US



Compact signaling system for mobile networks (up to and including 4G) to monitor analog and digital values as well as remotely switch relay outputs, Mounting type: Mounting rail TS 35, Supply voltage range: 10 - 30 VDC.

RAL: 9018

Business data

Article number	16457.2
Article name	GSM-PRO2E-4G-US
GTIN (EAN)	4044211222536
Packaging unit	1
Quantity unit	PC
Weight per piece (not including packaging)	202 g
Weight per piece (including packaging)	262 g
Unit of weight	G
Customs number	85176990
Country of origin	NL
Product description	Controller module
Colour	Light grey

Technical data

Dimensions

Length	95 mm
Width	88 mm
Height	65 mm

Connection data

Connection principle	Screw connection
Wire cross-section single core (rigid), min.	0.2 mm ²
Wire cross-section single-core (rigid), max.	2.5 mm ²
Wire cross-section stranded, min.	0.2 mm ²
Wire cross-section stranded, max.	2.5 mm ²
Stripping length	6 mm
Torque	0.4 Nm

Output data

Number of outputs	4
Switching voltage / switching voltage max.	250 / 250 VAC
Continuous current max. / Inrush current max.	5 / 5 A
Switching capacity, max.	1200 VA
Switching frequency, max.	6/min kHz
Electrical lifespan (AC1)	1,5x10 ⁵
Mechanical lifespan	15x10 ⁶
Relay contact	1CO

Input data

Number of channels	10
Input signal U/I, max.	30 V / -
Input resistance U/I	80K / 500 Ohm
Resolution U (0 ... 10 Vdc)	20mV / ±(20mV+0,3%)
Resolution I (0 ... 20 mA)	40 µA / ± (40 µ + 0,3%)
Pulse length, min.	500 ms
Threshold digital inputs	Low <2, High >4V
Counter input (pull-down)	1000 pulses/s, max. pull-down res. 24 kOhm

Materials

Contact material	AgNi 90/10
Working temperature, min.	-20 °C
Working temperature, max.	50 °C
Relative humidity, max.	80 (non-condensing) %

Technical data

GSM data

SIM card	Nano SIM
2G	Quad-band GSM bands: 850, 900, 1800 and 1900 MHz
3G	Five-band UMTS (WCDMA/FDD) bands: 800, 850, 900, 1800, 1900 and 2100 MHz
Antenna GSM	50 ohm, SMA plug
4G	LTE CAT1: Quad band, 700 (Bd12)/ 850 (Bd5)/AWS (Bd4)/1900 MHz (Bd2)

Further technical data

Power supply	10-30 VDC -
Current consumption	275 @ 24 VDC mA
Protection class	IP20
Storage temperature, min.	-20 °C
Storage temperature, max.	70 °C
Mounting	Mounting rail TS35 / direct mount
Backup power	Internal maintenance-free supercap capacitor
Electromagnetic properties	Directive 2014/30/EC in compliance with EN 55011 and EN 61326-1
Frequency spectrum	RED 2014/53/EC in compliance with ETSI EN 301-511 V9.0.2 Hz
Number of expansion modules, max.	15

BUS data

Bus protocol / interface	Modbus RTU / RS485, half-duplex, non-insulated
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Environmental Product Compliance

REACH Conform	yes
REACH Reference date	2024-01-23
REACH Candidate Substance Note	No
RoHS Conform	yes

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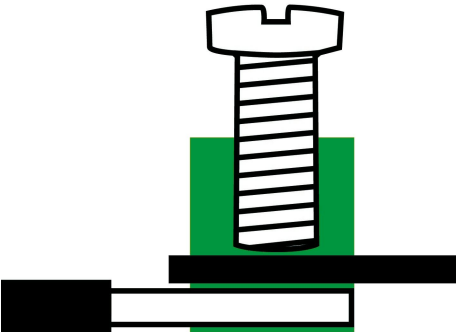
Approvals

Standards and regulations

Standards / specifications

Low-Voltage Directive (LVD) 2014/35/EC, in compliance with EN 50178. EMC Directive 2014/30/EC, in compliance with EN 61326-1

Media



Accessories

GSM-PRO I/O-Modules



GSM-PRO I/O digital input module, 10 digital inputs 24V with LED display, Mounting type: Mounting rail TS 35, Supply voltage range: 20 V - 28 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16375.2</u>	GSM-PRO-10DI	4044211207755	1 ST



GSM-PRO I/O analogue output module, 4 analogue outputs 0 - 10V, Mounting type: Mounting rail TS 35, Supply voltage range: 20 V - 28 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16376.2</u>	GSM-PRO-4AO	4044211207762	1 ST



GSM-PRO I/O Modbus connection module, Mounting type: Mounting rail TS 35

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16458.2</u>	GSM-PRO-CON	4044211222543	1 ST



GSM-PRO I/O digital output module, 4 relay outputs 1 W, 250 V, 16 A (inrush 80 A), With LED display, Mounting type: Mounting rail TS 35, Supply voltage range: 20 - 28 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16378.2</u>	GSM-PRO-4DO	4044211207786	1 ST



GSM-PRO I/O digital output module, 4 relay outputs 1 W, 250 V, 16 A (inrush 80 A), With LED display, Mounting type: Mounting rail TS 35, Supply voltage: 12 VDC

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16444.2</u>	GSM-PRO-4DO-12VDC	4044211222147	1 ST

Antennas

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GSM omni-directional antenna with SMA round connector (4G compatible)

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16450.2</u>	GSM-ANTENNA-4G	4044211222475	1 ST



GSM UMTS LTE antenna with omni-directional characteristic, SMA round plug,
Connecting cable length: 3 m

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16451.2</u>	GSM-ANTENNA-EXTERNAL-4G-3M	4044211222482	1 ST



GSM UMTS LTE antenna with omni-directional characteristic, SMA round plug,
Connecting cable length: 5 m

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16452.2</u>	GSM-ANTENNA-EXTERNAL-4G-5M	4044211222499	1 ST

Connection cables



USB 2.0 connection cable [1 USB 2.0 plug A - 1 USB 2.0 plug Micro-B] Cable length: 1.5 m, gold-plated plug contacts, colour: black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>16382.2</u>	GSM-USB-MICRO-cable	4044211207823	1 ST