SCK-C-MODBUS - PV string monitoring module

2901674

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CRA READY



SCK communication module, for acquiring data from up to 8 x SCK measuring modules, RS-485 Modbus/RTU output. Product is being prepared for compliance with the Cyber Resilience Act (CRA).

Product description

In PV system monitoring, PV string measurement plays a central role in increasing efficiency. Detect malfunctions and take countermeasures: the SOLARCHECK PV string monitoring system reliably provides you with information on the performance of your photovoltaic system. The system enables you to respond immediately to power losses in individual strings, which may be caused by damaged panels or defective contacts and cabling, for example.

Your advantages

- Low costs and wiring effort, as an additional power supply unit is not required in the device connection box
- Space-saving installation with the compact design
- Easy integration into monitoring systems with Modbus/RTU communication
- Monitoring of remote indication contacts by means of an additional digital input

Commercial data

Item number	2901674
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C447
Product key	CMMD13
GTIN	4046356623919
Weight per piece (including packing)	200 g
Weight per piece (excluding packing)	162 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Note on application

Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Product properties

Product type	Gateways/Proxies
Product family	SOLARCHECK

Insulation characteristics

Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.65 W
Protective circuit	Surge protection; 33 V suppressor diode

Supply

Nominal supply voltage	24 V DC -10 % ... +25 %
Supply voltage range	21.6 V DC ... 30 V DC
Max. current consumption	800 mA
Own current consumption	22 mA (typical)
	45 mA (maximum)
Power consumption	580 mW (24 V DC)

Connection data

Connection method	Screw connection
Conductor cross-section rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm

Interfaces

Data: Modbus/RTU

Serial transmission speed	9.6/14.4/19.2/38.4 kbps
Connection method	Screw terminal block
Connection technology	2-, 3-conductor
Transmission length	≤ 1200 m
Termination resistor	180 Ω (Not included in the scope of supply)
Protocols supported	Modbus/RTU

Data: Data interface for measuring or supplementary module

Protocols supported	Proprietary

Dimensions

Width	22.5 mm
Height	102 mm
Depth	106 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	≤ 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant

UL, USA

Identification	1741 Recognized

UL, USA/Canada

Identification	508 Listed

EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.

Noise emission

Standards/regulations	EN 61000-6-4

Standards and regulations

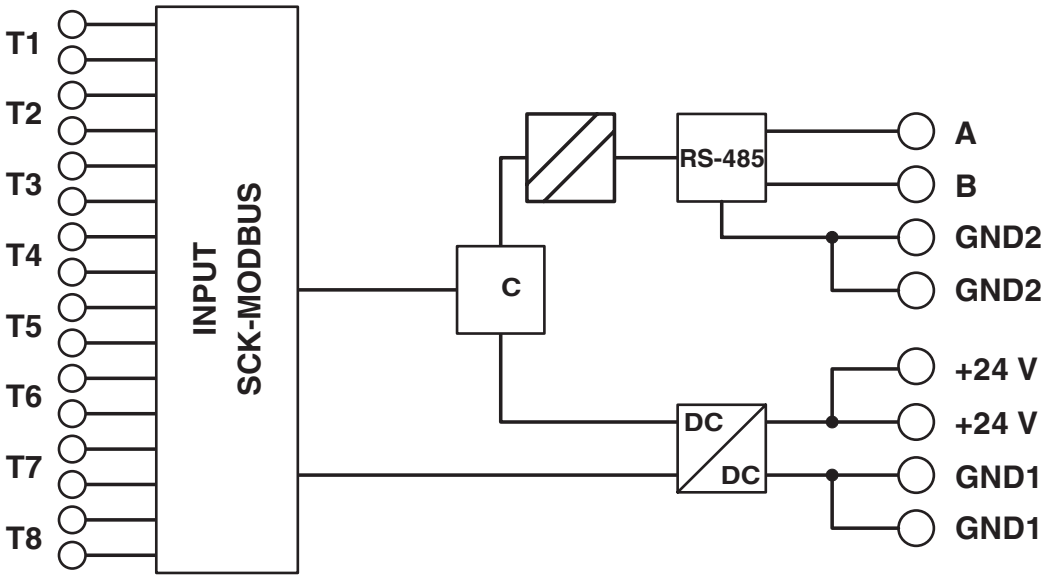
Standards/regulations	EN 61010-1
	EN 61010-2-30

Mounting

Mounting type	DIN rail: 35 mm
	DIN rail mounting
Assembly note	Horizontal or vertical
Mounting position	any

Drawings

Block diagram



Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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.)	Lead(CAS: 7439-92-1)
SCIP	0c4fa040-c93d-469e-908d-7c9d10cadd72

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