SCK-M-I-8S-20A - PV string monitoring module

2903241

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SCK measuring module for monitoring photovoltaic systems, 8 x current measurement up to 20 A, 1 x digital input, interface to SCK communication module, interface to voltage measuring module

Commercial data

Item number	2903241
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMM
Product key	CMMD11
GTIN	4046356729703
Weight per piece (including packing)	322.9 g
Weight per piece (excluding packing)	300 g
Customs tariff number	90303370
Country of origin	DE

Technical data

Product properties

Product type	Current measuring transducer
Product family	SOLARCHECK

Insulation characteristics

Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	1.15 W
Protective circuit	Surge protection; 33 V suppressor diode

Supply

Supply voltage range	via the SOLARCHECK communication module
Own current consumption	43 mA (typical)
	50 mA (maximum)

Input data

Signal: digital

Description of the input	Digital input
Available input sources	floating switch contacts
Cable length	≤ 30 m

Signal: analog

Description of the input	Analog input
Voltage input signal	0 V ... 10 V

Measurement

Number of inputs	8
Input current range	0 A DC ... 20 A DC (UL: 0 A DC...25 A DC)
Reverse current detection	-1 A DC ... 0 mA
LSB: Current	20 mA
Overload capacity	5 x I_N
Temperature coefficient, typical	0.02 %/K (T_{K20})
Maximum transmission error	± 1 % (From the measuring range final value)

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: Data interface to SCK-C-MODBUS

Transmission length	≤ 300 m (0.14 mm²)
	≤ 500 m (1.5 mm²)
Protocols supported	Proprietary

Dimensions

Item dimensions

Width	22.5 mm
Height	102 mm
Depth	128.5 mm

Circular conductor

Diameter	9.5 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/Canada

Identification	508 Listed

UL, USA

Identification	1741 Recognized

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

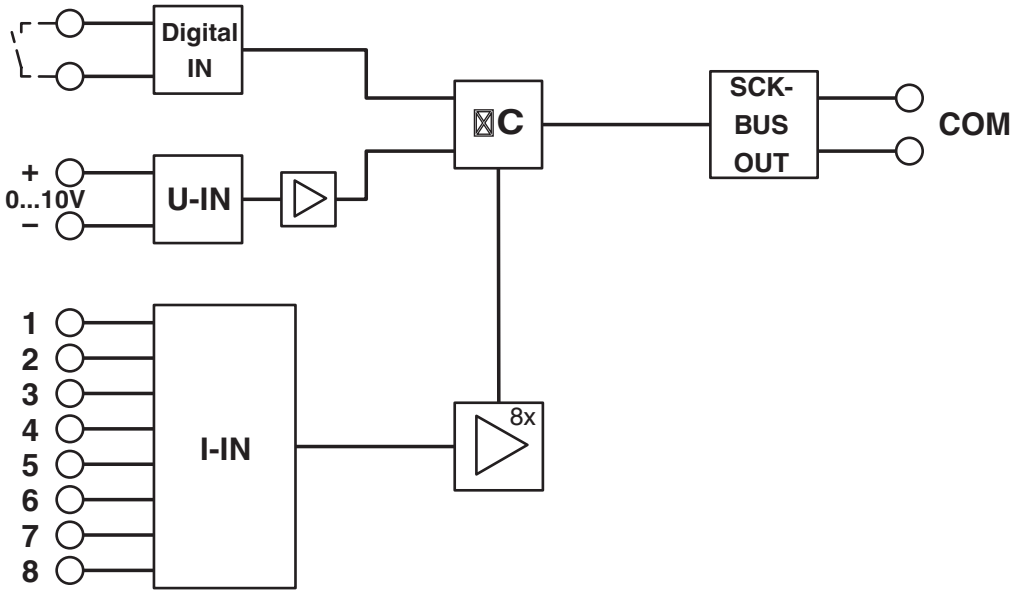
Standards/regulations	EN 61010-1
	EN 61010-2-30

Mounting

Mounting type	DIN rail: 35 mm
	DIN rail mounting

Drawings

Block diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/ae/products/2903241

UL Recognized
Approval ID: FILE E 325209

EAC
Approval ID: RU*DE.*08.B.01536/19

UL Listed
Approval ID: E140324

cUL Listed
Approval ID: E140324

Classifications

ECLASS

ECLASS-13.0	27210123
ECLASS-15.0	27210123

ETIM

ETIM 9.0	EC002475

UNSPSC

UNSPSC 21.0	39121000

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	fb391da0-3fbe-49f0-8eaa-a6224a23c97c

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