

2901674

<https://www.phoenixcontact.com/us/products/2901674>

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SCK communication module for acquiring up to 8 x SCK measuring modules, RS-485 Modbus/RTU output

Your advantages

- Digital input for monitoring the remote indication contacts of surge protection modules
- Internal temperature monitoring of measuring module
- Measuring modules supplied via the communication module

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            |

# SCK-C-MODBUS - PV string monitoring module



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## Technical data

### 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)<br>45 mA (maximum) |
| Power consumption        | 580 mW (24 V DC)                   |

### Connection data

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection                            |
| Conductor cross section rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| 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  |

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## 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                    |

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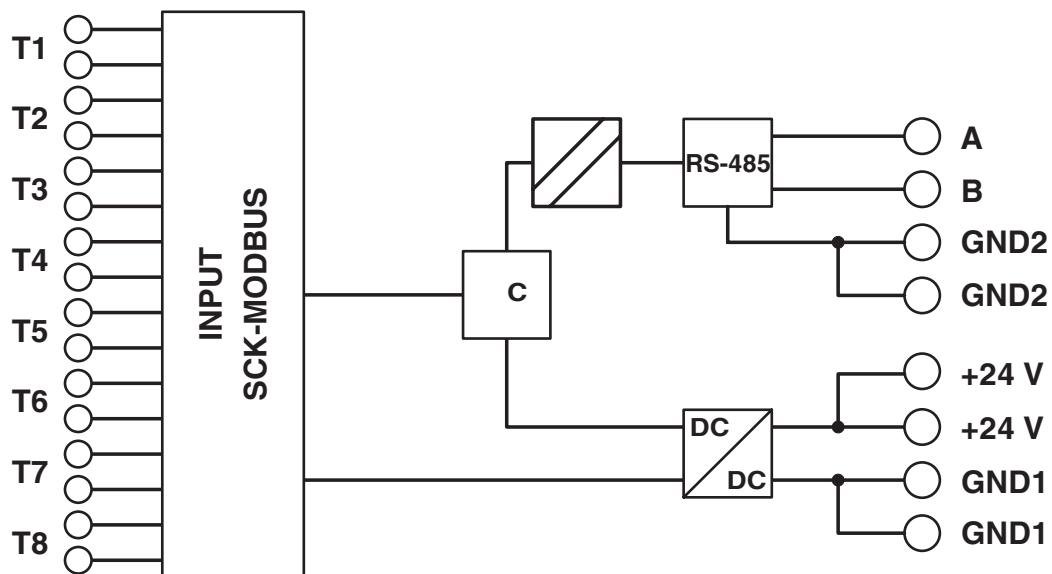


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## Drawings

Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2901674>



**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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242608 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001604 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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## 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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