

TRANSCLINIC 16I+ 1K5 L**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**PV Solar String Monitoring System (PV Solar SMS)**

The PV Solar String Monitoring System is a new device developed to monitor currents and voltage at string level inside a combiner box.

This new device is able to monitor up to 32 strings and to measure up to 50A per string.

It can be directly powered by the solar array while providing reliable information and data.

In order to have a flexible design that can fit any customer requirements, the Solar String Monitoring System (Solar SMS) has been developed as a modular system.

It consists of:

- The Master Module, that includes the power supply and communication infrastructure (RS-485) to coordinate data gathering from sensors.
- The Slave Modules, that collect current data with the usage of hall effect sensors. These modules can mount 8 or 12 sensors each with 25A and 50A sensors respectively.

Solar SMS

General ordering data

| | |
|------------|---|
| Version | Photovoltaics, Current monitoring, 16-channel, 1500 V |
| Order No. | 2433950000 |
| Type | TRANSCLINIC 16I+ 1K5 L |
| GTIN (EAN) | 4050118444513 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|----------|-----------------|--------------|
| Height | 92.2 mm | Height (inches) | 3.6299 inch |
| Width | 109.5 mm | Width (inches) | 4.311 inch |
| Length | 368.9 mm | Length (inches) | 14.5236 inch |
| Net weight | 939.34 g | | |

Temperatures

| | | | |
|----------------------------------|-------|-----------------------------------|----------------------------|
| Operating temperature | | Continuous operating temp., min. | -25 °C |
| Continuous operating temp., max. | 70 °C | Humidity at operating temperature | 5 to 95 % (non-condensing) |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

Technical data

| | | | |
|----------------------------------|---------------------------------|----------------------------|---|
| Number of digital inputs | 2 | Standards | IEC/ EN61010-1:2010, IEC/ EN61010-2-030:2010, EN61326-1:2013 |
| Pollution severity | 2 | Supply voltage | 19.2 – 28.8 V DC |
| Communication | MODBUS RS485 RTU | Rated voltage | 1500 V DC |
| current measuring | Shunt resistance 1 mOhm | Maximum current per string | 15 A DC (-25...+70 °C), 25 A DC (-25...+60 °C) |
| String-voltage measurement error | ± 18 V from 150 V DC to 1,500 V | Altitude | ≤ 2000 m |
| String-current measurement error | ± 300 mA from 3 A DC to 15 A DC | Supply current | <70 mA DC, 200 mA DC max. |
| Maximum number of strings | 16 | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002928 | ETIM 9.0 | EC002928 |
| ETIM 10.0 | EC002928 | ECLASS 14.0 | 22-57-02-92 |
| ECLASS 15.0 | 22-57-02-92 | | |

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Drawings

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