

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

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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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