

TRANSCLINIC 14I+

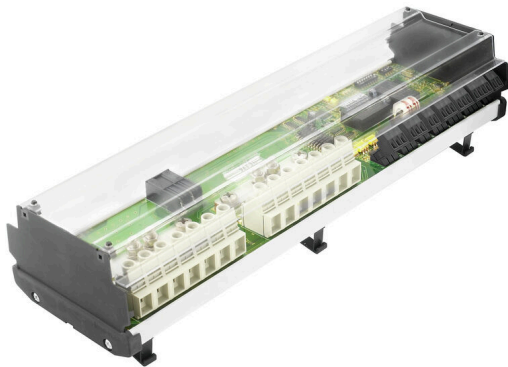
Weidmüller Interface GmbH & Co. KG

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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
Order No.	1238130000
Type	TRANSCLINIC 14I+
GTIN (EAN)	4050118044225
Qty.	1 items
Last order date	2021-12-31T00:00:00+01:00

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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	1310 g		

Temperatures

Operating temperature		Continuous operating temp., min.	-20 °C
Continuous operating temp., max.	70 °C		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	1df4a21b-8f30-4cfb-88b6-231429b3afe6

Technical data

Number of digital inputs	2	Supply voltage	19 - 36 V DC
Communication	MODBUS RS485 RTU	Rated voltage	1000 V DC
current measuring	Shunt resistance 1 mOhm	Power consumption	<1500 mW
Digital inputs	0,5 V low, 15 ... 24 V high	Maximum current per string	20 A DC (-25...+70 °C)
String-voltage measurement error	± 10 V from 100 V DC to 1000 V DC	Altitude	≤ 3000 m
String-current measurement error	± 260 mA from 3 A DC to 20 A DC	Measurement range	3...20 A DC
Maximum number of strings	14		

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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