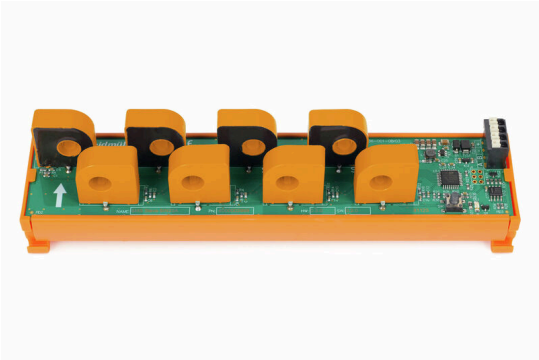
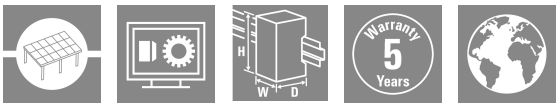
Data sheet

SOLAR SMS SLAVE 8IN25A

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, 8-channel, Current monitoring, Monitoring components, 24 V DC power supply
Order No.	4000002959
Type	SOLAR SMS SLAVE 8IN25A
GTIN (EAN)	8430243432320
Qty.	1 items

Data sheet

SOLAR SMS SLAVE 8IN25A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Approvals

Approvals	CE
ROHS	Conform

Dimensions and weights

Depth	188.8 mm	Depth (inches)	7.4331 inch
Height	43.5 mm	Height (inches)	1.7126 inch
Width	45 mm	Width (inches)	1.7716 inch
Net weight	156.64 g		

Temperatures

Operating temperature	-25 °C...70 °C	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	70 °C		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cI
REACH SVHC	Lead 7439-92-1
SCIP	9f0771a9-8aff-4670-ab97-f53e47dde174

Technical data

Standards	ETSI EN 300 220-1 V3.1.1:2017, ETSI EN 300 220-2 V3.1.1:2017, ETSI EN 301 489-1 V2.2.3:2019, ETSI EN 301 489-3 V2.1.2:2021, EN 61326-1:2013, EN 62311:2020, EN 62109-1:2010	Pollution severity	2
Supply voltage	24 V DC supplied from SOLAR SMS MASTER or SOLAR SMS MASTER LORA	Communication	MODBUS RS485 RTU
Rated voltage	24 V DC	current measuring	Hall effect sensor
Maximum reading error	± 1% (of the full scale value)	Maximum current per string	25 A DC (-25...+70 °C)
Altitude	≤ 2000 m	Maximum number of strings	8

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		