

Photovoltaic panel switch-off - SCK-RSD-600 - 2906273

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Photovoltaic panel shutdown, start unit for the safe system start of PV systems with SOLARCHECK RSD panel shutdown. Externally supplied system topology.

Product Description

Intelligent photovoltaic panel shutdown with Auto Rapid Shutdown:

Based on the analysis of current and voltage conditions in the string lines and in the individual panels, the SOLARCHECK RSD system shutdown units are able to distinguish between the various operating states. In accordance with the fail-safe principle, any deviation from a normal operating state leads to a shutdown, regardless of whether the inverter is shut down, a string line or panel is defective, etc. The intelligent startup unit automatically puts the system back into operation when a safe and technically faultless system environment is present. SOLARCHECK RSD tracks the operating state of the inverter. The system can therefore easily be manually switched on and off via the inverter, for maintenance purposes, for example. This technology, developed and patented by Phoenix Contact, is more reliable and faster than any human assessment or manual intervention.

Why buy this product

- Safety as a result of patented error detection and safe photovoltaic panel shutdown
- Controlled restart via safe autostart
- No additional communication required, either wirelessly or via cables
- Easy to install in new and existing systems using existing DC cables
- Easy startup without any programming or manual setup



Key Commercial Data

Packing unit	1 STK
Custom tariff number	85371099
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Technical data

Supply

Designation	Optional power supply input
Nominal supply voltage	24 V DC \pm 20 %
Current consumption	1 A

Signal output

Voltage output signal	5 V
Current output signal	\leq 10 mA
Maximum output power	\leq 50 mW

System connection

Input voltage range	30 V DC ... 800 V DC
Power dissipation	$<$ 4 W
Number of PV panels that can be connected	\leq 20 (or \leq 1000 V DC system voltage)
Cable type	PV cable
Conductor cross section	4 mm ² (System connection) 2x 0.75 mm ² (System output) 2.5 mm ² (optional power supply input)
Cable length	150 mm (System connection) 1 m (optional power supply input) 1 m (Signal output)
Connection method	PV connector
Release	Auto-RSD

General

Rated surge voltage	12 kV
Degree of protection	IP65/IP67
Overvoltage category	III
Degree of pollution	3
Mounting type	Mounting screws

Dimensions

Width	154 mm
Height	159 mm
Depth	35 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C
Altitude	\leq 4000 m
Permissible humidity (operation)	10 % ... 95 %

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Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive
Standards/regulations	EN 61010
	EN 50548 +A1:2013 +A2:2014

Classifications

eCl@ss

eCl@ss 5.1	27210902
eCl@ss 6.0	27210902
eCl@ss 8.0	27210123
eCl@ss 9.0	27210123

ETIM

ETIM 5.0	EC002475
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