

PVC DC 2I 1O 2MPP RD SPD1R EVO 11**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**General ordering data**

Version	Photovoltaics, Combiner Box, Fireman's switch, 1100 V, 2 MPP's, 2 Inputs / 1 Output per MPP, Surge protection I / II, Remote disconnecter, MC4-Evo 2
Order No.	8000098970
Type	PVC DC 2I 1O 2MPP RD SPD1R EVO 11
GTIN (EAN)	4099986665293
Qty.	1 pc(s).
Replacement parts	2530600000 2534300000

Creation date November 24, 2023 2:49:35 PM CET

Catalogue status 21.11.2023 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	132 mm	Depth (inches)	5.197 inch
Height	236 mm	Height (inches)	9.291 inch
Width	300 mm	Width (inches)	11.811 inch
Net weight	4,035 g		

Temperatures

Ambient temperature	-20 °C...+50 °C	Humidity	5...95 %, no condensation
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Approvals and norms

Approvals	EN 61439-2, IEC 61439-2, OVE-Directive R 11-1:2022-05-01
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Guarantee

Time interval	5 years
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Electrical characteristics

Current per Maximum Power Point, max. 44 A

Rated DC current per connection	Current per string, max.	44 A
Rated short-term current resistance	Rated current	55 A
Rated DC voltage	1,100 V	
Switching disconnector capacity	IEC 60947-3, DC-PV1	

Enclosure

Connection type string	Plug MC4-Evo 2	Enclosure attachment	Via mounting feet
Impact resistance	IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262	Insulating material	Polyester glass-fibre reinforced, Polycarbonate
Switch disconnector execution	Remote disconnector on enclosure	Type of mounting	Fixing lugs

General data

Installation location	Protected outdoor area (>1 km from sea)	Protection degree	IP65
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Inputs

Amount of maximum power points	2 MPP		
DC Input + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	6 mm ²
	Cable entry	Number of cable entries	4

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Functional earth connector	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Tension clamp connection with actuator
		Flexible, max. H05(07) V-K	25 mm ²
Fuse type	Neither fuse cartridge nor holder		
Max. number of DC inputs	per Maximum Power Point 2 inputs connected in parallel		
Surge protection auxiliary contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Tension clamp connection with actuator
		Flexible, max. H05(07) V-K	1.5 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²

Outputs

DC Output + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Compatible cable cross-section	TÜV 2 Pfg 1169/08.07
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	6 mm ²
Max. number of DC outputs	per Maximum Power Point 1 output		

Remote disconnecter

Automatic reclosing after voltage drop	Yes		
Number of operating cycles	10,000		
Control voltage	100 V AC - 250 V AC 50/60Hz		
Remote disconnecter auxiliary contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Screw terminal connectors
		Flexible, max. H05(07) V-K	1.5 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
Remote disconnecter control contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Screw terminal connectors
		Flexible, max. H05(07) V-K	1.5 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
Type of power circuit disconnection	Under voltage tripping or manual switch operation		
Turn-off time	1.5 s		

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Surge protection DC side

Discharge current I_n (8/20 μ s)	20 kA	Discharge current, max. (8/20 μ s)	40 kA
Lightning test current I_{imp} (10/350 μ s)	6.25 kA	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1,100 V
PV system voltage, max. U_{cpv}	1,100 V	Protection level U_p (+/-, -/PE, +/-PE)	≤ 3.8 kV
Protection level U_p (+/-)	≤ 3.8 kV	Protection level U_p (+/PE)	≤ 3.8 kV
Protection level U_p (-/PE)	≤ 3.8 kV	Requirements class	Type I/II
Short-circuit current I_{SCP}	11,000 A	Standby power consumption P_c	<0.2 W
Total discharge current I_{total} (8/20 μ s)	50 kA	Total discharge current I_{total} (10/350 μ s)	12.5 kA

Classifications

ETIM 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	EC003857	ETIM 9.0	EC003857
ECLASS 9.0	22-57-92-03	ECLASS 9.1	22-57-02-90
ECLASS 10.0	22-57-02-90	ECLASS 11.0	22-57-02-92
ECLASS 12.0	22-57-02-92	ECLASS 13.0	22570292

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Technical data

Tender specification sheets

Long specification

Automatic ON and OFF switching fireman switch for the connection to 2 MPP tracker in the inverter. Suitable for remote disconnection of the DC side by the fire department.
Max. string voltage Uoc: 1100V

Integrated surge protection with 2 class I+II combined arresters with signal contact. Suitable for protection against overvoltages in a photovoltaic system according to EN 51643-32.

MPP1:
2 inputs, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg1 169/08.07 / EN 50618:2063
1 output, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg1 169/08.07 / EN 50618:2063
MPP2:
identical to MPP1

DC fireman switch:
Switching off by undervoltage tripping. Automatic reconnection after the control voltage (230 V AC) is applied again.
With signal contact.

Connection of the fireman switch control line 230 VAC via cable glands (8-12mmØ) max. conductor cross-section: 1.5mm².
Connection of the signal contact 24 VDC via cable glands (8-12mmØ) max. conductor cross-section: 1.5mm².
Protection class: IP65.
All built into a glass fibre reinforced polyester housing.
Dimensions HxWxD: 236x200x132mm.

Approval according to low voltage switchgear IEC 61439-1:2011 and EN 61439-2:2011

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REACH SVHC	Lead 7439-92-1
SCIP	bdab5698-6a20-4370-8e28-8810d882d01a

Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	PV Next Classic Declaration of Conformity 1
Engineering Data	Schematic Diagram
Technical Documentation	8000098970 Customer drawing
User Documentation	Manual PV Next String Combiner Box MANUAL PV NEXT IT/ES/FR MANUAL PV NEXT RD DE/EN
White paper	07_PV-Fact-Sheet-CB-Lastentrennschalter_DE.pdf 07_PV-Fact-Sheet-CB-Load-break-switch_EN.pdf PV Fact Sheet Feuerwehrscharter PV Fact Sheet Fireman Switch
Catalogues	Catalogues in PDF-format

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Drawings

