

PVC DC 2I 1O 6MPP RD WM4 11
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

IP65


For safe remote shutdown Rooftop photovoltaic systems can require a disconnection device at the point where the cables enter into the building, that is connected to the power grid in the building. This allows the fire brigade to carry out their work in an emergency without being unnecessarily endangered. When the power supply is restored, the PV Next Fireman Switch automatically reconnects the PV strings.

General ordering data

Version	Photovoltaics, Combiner Box, Fireman's switch, PV Next, 1100 V, 6 MPP's, 2 Inputs / 1 Output per MPP, Remote disconnecter, WM4C
Order No.	8000115473
Type	PVC DC 2I 1O 6MPP RD WM4 11
GTIN (EAN)	4099986874275
Qty.	1 items

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	132 mm	Depth (inches)	5.1968 inch
Height	339 mm	Height (inches)	13.3464 inch
Width	400 mm	Width (inches)	15.748 inch
Net weight	7723.25 g		

Temperatures

Ambient temperature -20 °C...50 °C Humidity 5...95 %, no condensation

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	bdab5698-6a20-4370-8e28-8810d882d01a

Included in delivery

Included accessories	Article	Mounting foot
	Quantity	4
	Article	Sealing plug
	Quantity	8

Approvals and norms

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

Guarantee

Time interval 5 years

Electrical characteristics

Rated DC voltage	1100 V
Rated short-term current resistance	Rated current 43.75 A
Current per maximum power point, max.	35 A
Rated DC current per connection	Current per string, max. 35.00 A

Enclosure

Insulating material	Polyester glass-fibre reinforced, Polycarbonate	Type of mounting	Fixing lugs
Impact resistance	IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262	Enclosure attachment	Via mounting feet

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Protection class	II	Connection type string	Plug WM4C
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General data

Protection degree	IP65	Installation location	Protected outdoor area (Land and Sea)
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Inputs

Amount of maximum power points (MPP)	6		
Number of conduit inlets	3		
DC Input + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable crosssection	EN 50618:2015
		Wire cross-section, min.	4 mm ²
		Wire cross-section, max.	6 mm ²
	Cable entry	Number of cable entries	12
Fuse type	Neither fuse cartridge nor holder		
Fuses	No		
Max. number of DC inputs	per Maximum Power Point 2 inputs connected in parallel		
Number of string inputs per MPP	≤ 2		
Number of inputs	12		

Outputs

Max. number of DC outputs	per Maximum Power Point 1 output		
DC Output + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable crosssection	TÜV 2 Pfg 1169/08.07
		Wire cross-section, min.	4 mm ²
		Wire cross-section, max.	6 mm ²

Remote disconnecter

Automatic reclosing after voltage drop	Yes		
Number of operating cycles	10000		
Control voltage	100 V AC - 250 V AC 50/60Hz		
Remote disconnecter auxiliary contact	Cable entry	Number of cable entries	1
		Type of connection	PUSH IN
	Wire connection	Flexible, max. H05(07) V-K	2.5 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²
		Number of cable entries	1
Remote disconnecter control contact	Cable entry	Number of cable entries	1
		Type of connection	PUSH IN
	Wire connection	Flexible, max. H05(07) V-K	2.5 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²
Type of power circuit disconnection	Under voltage tripping		

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Turn-off time	<5 s	
Turn-on time	<15 s when the control unit was completely discharged	
Current consumption of switch	Type of switch	Fireman switch
	Current consumption, note	The Peak current only arises for a short time when the capacitors of the fireman switch were previously completely discharged.
	Current consumption peak	600 mA
	Current consumption continuous	60 mA
Number of breaking operation cycles (rated current)	300	
Switch disconnecter execution	Remote disconnecter inside enclosure	
Switching disconnecter capacity	DC-PV1, IEC 60947-3	

Classifications

ETIM 8.0	EC003857	ETIM 9.0	EC003857
ETIM 10.0	EC003857	ECLASS 14.0	22-57-02-92
ECLASS 15.0	22-57-02-92		

Tender specification sheets

Long specification	Combiner box for inverters with Fireman switch for the connection to 6 MPP tracker. Suitable for remote disconnection of the DC side by the fire department according to VDE-AR-E2100-712. Max. string voltage Uoc: 1100 VDC MPP1: 2 inputs, connection via WM4 C connector, compatible with cable type TÜV 2 Pfg1169/08.07 / EN 50618:2063 1 output, connection via WM4 C connector, compatible with cable type TÜV 2 Pfg1169/08.07 / EN 50618:2063 MPP2 to 6: identical to MPP1 DC fireman switch: Switching off by undervoltage tripping. Switching off by reaching a temperature of $\geq 100\text{ }^{\circ}\text{C}$ in the housing. 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 M16 cable glands (Clamping range 5-10 mmØ) max. conductor cross-section: 1.5 mm². Connection of the signal contact 24 VDC (max. 300 mA) via M16 cable glands (Clamping range 5-10
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mmØ) max. conductor
cross-section: 1.5 mm².
Protection class: IP65.
All built into a glas fibre
reinforced polyester
housing. Dimensions
HxWxD: 339x400x132
mm. Approval according to
low voltage switchgear IEC
61439-1 and EN 61439-2

Drawings

