

PVN DC 2I 1O 1MPP RD EVO 11

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

www.weidmueller.com



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, 1 MPP, 2 Inputs / 1 Output per MPP, Remote disconnecter, MC4-Evo 2, 1100 V
Order No.	2888520000
Type	PVN DC 2I 1O 1MPP RD EVO 11
GTIN (EAN)	4064675875567
Qty.	1 items

PVN DC 2I 10 1MPP RD EVO 11

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

www.weidmueller.com

Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	135 mm	Depth (inches)	5.3149 inch
Height	370 mm	Height (inches)	14.5669 inch
Width	200 mm	Width (inches)	7.874 inch
Net weight	2268 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)	6c, 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	Dustcap VSSO
	Quantity	2
	Article	Sealing plug
	Quantity	1

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 55 A
Current per Maximum Power Point, max.	44 A
Rated DC current per connection	Current per string, max. 44.00 A

PVN DC 2I 10 1MPP RD EVO 11

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

www.weidmueller.com

Technical data

Enclosure

Insulating material	Polyester glass-fibre reinforced, Polycarbonate	Type of mounting	Wall mounting
Impact resistance	IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262	Enclosure attachment	Via mounting feet
Protection class	II	Connection type string	Plug MC4-Evo 2

General data

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

Inputs

Amount of maximum power points (MPP)	1		
Number of conduit inlets	4		
DC Input + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Compatible cable cross-section	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	16 mm ²
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	2		

Outputs

Max. number of DC outputs	per Maximum Power Point 1 output		
DC Output + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Compatible cable cross-section	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	16 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	Screw terminal connectors
	Wire connection	Flexible, max. H05(07) V-K	1.5 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²

PVN DC 2I 10 1MPP RD EVO 11

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

www.weidmueller.com

Technical data

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		
Turn-off time	1.5 s		
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	300 mA	
	Current consumption continuous	30 mA	
Number of breaking operation cycles at rated current	300		
Switch disconnecter execution	Remote disconnecter inside enclosure		
Switching disconnecter capacity	IEC 60947-3, DC-PV1		

Important note

Product information The SCIP number was assigned due to a lead content of more than 0.1 % of the net weight. Safe use instruction according to ECHA:
 The identification of the hazardous substance is sufficient to allow safe use of the article throughout its life cycle, including the service life, disassembly and waste/recycling phase

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 Automatic ON and OFF switching fireman switch for the connection to 1 MPP tracker in the inverter. Suitable for remote disconnection of the DC side by the fire department.
 Max. string voltage Uoc: 1100V MPP1:
 2 inputs, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg 1169/08.07 / EN 50618:2063
 1 output, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg 1169/08.07 / EN 50618:2063
 DC fireman switch:
 Switching off by undervoltage tripping.
 Automatic reconnection after the control voltage (230 V AC) is applied again.

PVN DC 2I 10 1MPP RD EVO 11

Technical data

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: 370x200x135mm.
Approval according to low voltage switchgear IEC 61439-1:2011 and EN 61439-2:2011

PVN DC 2I 10 1MPP RD EVO 11

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

Drawings

www.weidmueller.com



PVN 1 M2 I6 S0 F3 V1 Q1 TX PX 10

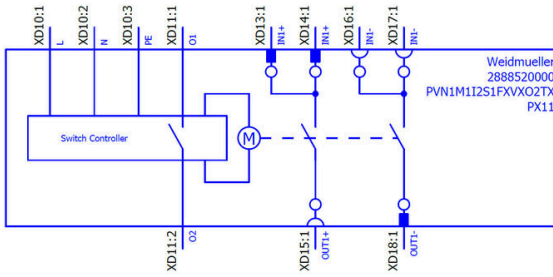
Series PVN = PV Next VPU = PV Protect	Voltage 10 = 1kV 11 = 1,1kV 15 = 1,5kV
Level 1 = DC trunk box (L1)	Powersupply x = n/a
Series 1 = 1 MPPT supported 2 = 2 MPPT supported 3 = 3 MPPT supported 4 = 4 MPPT supported 6 = 6 MPPT supported	Monitoring x = n/a
Inputs 1...12 inputs	Output Type 0 = CG 1 = WM4C 2 = MC4-Evo 2
Switch x = n/a 0 = manual switch 1 = remote switch	SPD 2/0 = TYP II 1 = TYP I+II X = No SPD
	Fuses x = n/a 3 = only fuse holders

PVN DC 2I 10 1MPP RD EVO 11

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

Drawings

www.weidmueller.com



PVN DC 2I 10 1MPP RD EVO 11

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

www.weidmueller.com

Accessories

PV Sun Covers



General ordering data

Type	PV SUNCOVER 30/20/13	Version	
Order No.	8000143245	Photovoltaics, Sun cover	
GTIN (EAN)	4099987 111843		
Qty.	1 ST		

Cutting tools



Cutting tools for conductors up to 8 mm, 12 mm, 14 mm and 22 mm outside diameter. The special blade geometry allows pinch-free cutting of copper and aluminium conductors with minimum physical effort. The cutting tools (KT 8 to KT 22) also come with VDE and GS-tested protective insulation up to 1,000 V in accordance with EN/IEC 60900.

General ordering data

Type	KT 14	Version	
Order No.	1157820000	Cutting tools, Cutting tool for one-hand operation	
GTIN (EAN)	4032248945344		
Qty.	1 ST		

Tools



- For flexible and solid conductors with special insulating materials
- High-quality stripping for industrial applications (complies with aircraft industry requirements)
- Specially shaped blades enable stripping of special types of insulation and conductor configurations
- Stripping length adjustable via end stop
- Very versatile thanks to interchangeable stripping units
- Stripping results reproduced accurately over and over again
- No damage to the conductor
- A long-lasting, reliable tool thanks to its sturdy design
- Integrated cutting function

PVN DC 2I 10 1MPP RD EVO 11

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

www.weidmueller.com

Accessories

General ordering data

Type	MULTI-STRIPAX PV	Version	
Order No.	1190490000	Photovoltaics, Plug-in connector	
GTIN (EAN)	4032248973262		
Qty.	1 ST		

Crosshead screwdriver Phillips



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

General ordering data

Type	SDK PH3	Version	
Order No.	9008500000	Screwdriver, Screwdriver	
GTIN (EAN)	4032248056491		
Qty.	1 ST		

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.6X3.5X100	Version	
Order No.	9008330000	Screwdriver, Screwdriver	
GTIN (EAN)	4032248056286		
Qty.	1 ST		
Type	SDS 1.0X5.5X150	Version	
Order No.	9008350000	Screwdriver, Screwdriver	
GTIN (EAN)	4032248056316		
Qty.	1 ST		

PVN DC 2I 10 1MPP RD EVO 11

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

www.weidmueller.com

Accessories

UV-resistant cable ties



UV-resistant polyamide 6.6 ensures long durability of our special cable ties even with strong UV radiation. Ideal for continuous outdoor use.

General ordering data

Type	CB-UVR 290/4,5 BK	Version	
Order No.	2659350000		Cable ties, 4.5 x 290 mm, Polyamide 66, 220 N
GTIN (EAN)	4050118682816		
Qty.	100 ST		

Y-Connector Cables



The Y cable is used for the parallel connection of several strings in a PV system, e.g. for splitting a line in front of an inverter.
 The cables are available in different connection variants.

General ordering data

Type	PVHYM-M-XXXX6W+11	Version	
Order No.	2877850000		Photovoltaics, Y-Connector Cable, 1x WM4 C Female, 2x MC4 Male, 6mm ² , 1100 V
GTIN (EAN)	4064675666417		
Qty.	1 ST		
Type	PVHYM+M+XXXX6W-11	Version	
Order No.	2877860000		Photovoltaics, Y-Connector Cable, 1x WM4 C Male, 2x MC4 Female, 6mm ² , 1100 V
GTIN (EAN)	4064675666424		
Qty.	1 ST		

Emergency stop button



PVN DC 2I 10 1MPP RD EVO 11

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

www.weidmueller.com

Accessories

General ordering data

Type	AC SB E 5A 1POL PO 06KV	Version	
Order No.	3077660000	Photovoltaics, Emergency stop button, 1 pole, 600 V AC, 5 A,	
GTIN (EAN)	4099987081887	Complete enclosure	
Qty.	1 ST		

Sealing sets



General ordering data

Type	BLINDPLUG SET5 7X28MM	Version	
Order No.	3077670000	Photovoltaics, Blind plug	
GTIN (EAN)	4099987081894		
Qty.	1 ST		
Type	BLINDPLUG SET50 7X28MM	Version	
Order No.	3077650000	Photovoltaics, Blind plug, Accessories, Blind plug, 50 pieces	
GTIN (EAN)	4099987081870		
Qty.	1 ST		

PV marking sets



General ordering data

Type	PV MARKER 1-3 MPP	Version	
Order No.	8000149520	Photovoltaics, Device markers, Accessories, Conductor and cable markers, Cable ties, Marking set, Warning label, Cable marker, Self-adhesive	
GTIN (EAN)	4099987229197		
Qty.	1 ST		