

**PVN1M1I2S1FXVXO2TXPX11****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**General ordering data**

Version	Photovoltaics, Combiner Box, Fireman's switch, 1 MPP, 2 Inputs / 1 Output per MPP, Remote disconnect, MC4-Evo 2, 1100 V
Order No.	<a href="#">2888520000</a>
Type	PVN1M1I2S1FXVXO2TXPX11
GTIN (EAN)	4064675875567
Qty.	1 pc(s).

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**Technical data**
**Dimensions and weights**

Depth	135 mm	Depth (inches)	5.315 inch
Height	370 mm	Height (inches)	14.567 inch
Width	200 mm	Width (inches)	7.874 inch
Net weight	2,268 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. 30 A

Rated DC current per connection	Current per string, max.	30 A
Rated short-term current resistance	Rated current	37.5 A
Rated DC voltage	1,100 V	
Switching disconnecter 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
Protection class	II	Switch disconnecter execution	Remote disconnecter inside enclosure
Type of mounting	Wall mounting		

**General data**

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

Amount of maximum power points	1 MPP		
DC Input + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	6 mm <sup>2</sup>
Fuse type	Neither fuse cartridge nor holder		
Max. number of DC inputs	per Maximum Power Point 2 inputs connected in parallel		

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**Outputs**

DC Output + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	6 mm <sup>2</sup>

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 <sup>2</sup>
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>
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 <sup>2</sup>
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>
Type of power circuit disconnection	Under voltage tripping or manual switch operation		
Turn-off time	1.5 s		

**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	22-57-02-92

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## Long specification

Automatic ON and OFF  
switching fireman switch  
for the connection to 1  
MPP tracker in the inverter.  
Suitable for remote discon-  
nection 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 Pfg1169/08.07 /  
EN 50618:2063  
1 output, connection via  
MC4-Evo 2 connector,  
compatible with cable type  
TÜV 2 Pfg1169/08.07 /  
EN 50618:2063

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

Connection of the fire-  
man switch control line  
230 VAC via cable glands  
(8-12mmØ) max. conduc-  
tor cross-section: 1.5mm<sup>2</sup>.  
Connection of the signal  
contact 24 VDC via cable  
glands (8-12mmØ) max.  
conductor cross-section:  
1.5mm<sup>2</sup>.  
Protection class: IP65.  
All built into a glas fibre re-  
inforced polyester hous-  
ing. Dimensions HxWxD:  
370x200x135mm.

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

**Environmental Product Compliance**

REACH SVHC

Lead 7439-92-1

SCIP

bdab5698-6a20-4370-8e28-8810d882d01a

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## 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

**Approvals**

## Approvals

**Downloads**

## Engineering Data

[CAD data – STEP](#)

## Technical Documentation

[CAD data – Schematic diagram](#)[2888520000 Customer drawing](#)

## User Documentation

[MANUAL PV NEXT RD DE/EN](#)

## White paper

[Fact Sheet DE PV CB Lastentrennschalter](#)[Fact Sheet EN PV CB Load break switch](#)[Fact Sheet DE PV Feuerwehrscharter](#)[Fact Sheet EN PV Fireman switch](#)

## Catalogues

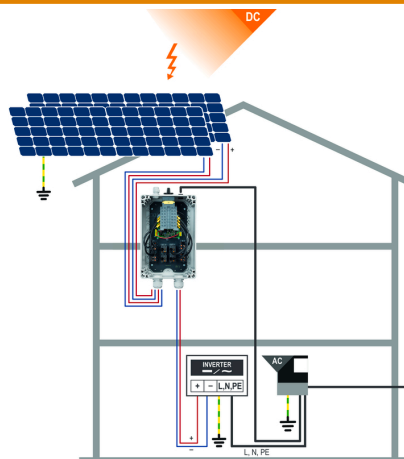
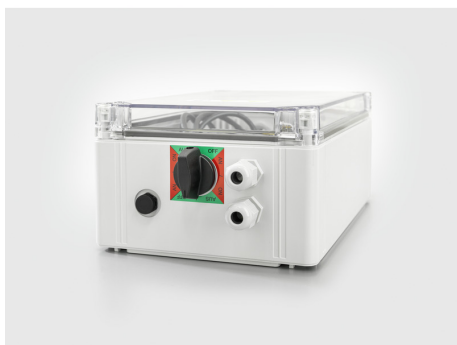
[Catalogues in PDF-format](#)

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## Drawings



PVN 1 M2 I6 S0 F3 V1 Q1 TX PX 10									
<b>Series</b>		<b>Voltage</b>		<b>Powersupply</b>		<b>Monitoring</b>		<b>Output Type</b>	
PVN = PV Next		10 - 1kV		x = n/a		x = n/a		0 = CG	
VPU = PV Protect		11 - 1.1kV						1 = WIMAC	
		15 - 1.5kV						2 = MDA-Evo 2	
<b>Level</b>								<b>SPD</b>	
1 = DC trunk box (L1)								2/0 - TYP II	
<b>Series</b>								1 = TYP I+II	
1 = 1 MPPT supported								X = No SPD	
2 = 2 MPPT supported									
3 = 3 MPPT supported									
4 = 4 MPPT supported									
5 = 5 MPPT supported									
6 = 6 MPPT supported									
<b>Inputs</b>								<b>Fuses</b>	
1..12 inputs								x = n/a	
<b>Switch</b>								3 = only fuse holders	
x = n/a									
0 = manual switch									
1 = remote switch									

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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.	<a href="#">1157820000</a>	Cutting tools, Cutting tool for one-hand operation
GTIN (EAN)	4032248945344	
Qty.	1 pc(s).	

**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.	<a href="#">9008500000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056491	
Qty.	1 pc(s).	

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## Accessories

### Y-Connector Cables



The Y or X cable is used to connect three or four elements of a PV system, such as the connection between PV panels, inverters and surge protection boxes. The cables are available in different connection variants.

### General ordering data

Type	PVHYM-M-XXXX6W+15	Version
Order No.	<a href="#">2877850000</a>	Photovoltaics, Y-Connector Cable, 1x WM4 C Female, 2x MC4 Male,
GTIN (EAN)	4064675666417	6mm², 1500 V
Qty.	1 pc(s).	
Type	PVHYM+M+XXXX6W-15	Version
Order No.	<a href="#">2877860000</a>	Photovoltaics, Y-Connector Cable, 1x WM4 C Male, 2x MC4 Female,
GTIN (EAN)	4064675666424	6mm², 1500 V
Qty.	1 pc(s).	

### 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.	<a href="#">2659350000</a>	Cable ties, 4.5 x 290 mm, Polyamide 66, 220 N
GTIN (EAN)	4050118682816	
Qty.	100 pc(s).	



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## Accessories

### Tools

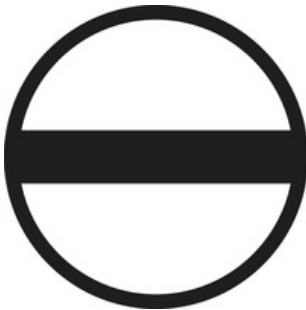


- For flexible and solid conductors with special insulating materials
- High-quality stripping for industrial applications (complies with aircraft industry requirements)
- Specially shaped blades enable stripping of special types of insulation and conductor configurations
- Stripping length adjustable 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

### General ordering data

Type	MULTI-STRIPAX PV	Version
Order No.	<a href="#">1190490000</a>	Photovoltaics, Plug-in connector
GTIN (EAN)	4032248973262	
Qty.	1 pc(s).	

### 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 1.0X5.5X150	Version
Order No.	<a href="#">9008350000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056316	
Qty.	1 pc(s).	
Type	SDS 0.6X3.5X100	Version
Order No.	<a href="#">9008330000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056286	
Qty.	1 pc(s).	

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