

**PVN1M2I4SXFV101TXPX10****Weidmüller Interface GmbH & Co. KG**

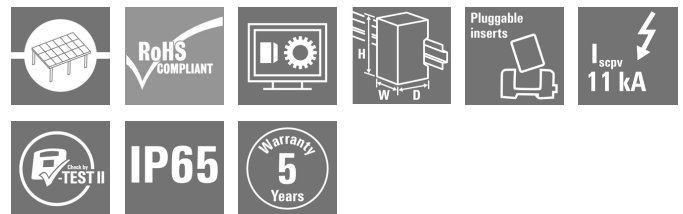
Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Product is no longer available, There is a successor product



PV Next combiner boxes for inverters with 1 to 12 MPP trackers are used to protect the DC side of a photovoltaic system. The combiner boxes protect the inverter against overvoltages and thus comply with the European Directive CLC/TS 51643-32. In addition, these products offer the possibility to protect the system against reverse currents and the possibility to combine strings to save cables during installation.

**General ordering data**

Version	Photovoltaics, Combiner Box, 1000 V, 2 MPP's, 2 Inputs / 1 Output per MPP, Surge protection I / II, WM4C
Order No.	<a href="#">2737580000</a>
Type	PVN1M2I4SXFV101TXPX10
GTIN (EAN)	4050118824865
Qty.	1 pc(s).
Delivery status	Discontinued
Available until	2022-12-31
Replacement parts	<a href="#">2530600000</a> <a href="#">2534300000</a>
Alternative product	<a href="#">2866340000</a>

**PVN1M2I4SXFV101TXPX10**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)
**Technical data**
**Dimensions and weights**

Depth	175 mm	Depth (inches)	6.89 inch
Height	334 mm	Height (inches)	13.15 inch
Width	186 mm	Width (inches)	7.323 inch
Net weight	2,626 g		

**Temperatures**

Ambient temperature	-40 °C...45 °C	Humidity	5 - 90 %, no condensation
---------------------	----------------	----------	---------------------------

**DC string monitoring**

Monitoring function	Non monitored
---------------------	---------------

**Approvals and norms**

Approvals	EN 61439-2, IEC 61439-2
-----------	-------------------------

**Guarantee**

Time interval	5 years
---------------	---------

**Electrical characteristics**

Current per Maximum Power Point, max. 30 A

Rated DC voltage		1,000 V
Rated short-term current resistance	Rated current	37.5 A

**Enclosure**

Connection type string	Plug WM4C	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
Type of mounting	Wall mounting, 4 screws		

**General data**

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

**Inputs**

Amount of maximum power points (MPP)	2		
DC Input + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable cross-section	EN 50618:2015, TÜV 2 Pfg 1169/08.07
		Wire cross-section, min.	4 mm <sup>2</sup>
		Wire cross-section, max.	6 mm <sup>2</sup>
	Cable entry	Number of cable entries	4

**PVN1M2I4SXFV101TXPX10**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Functional earth connector	Cable entry	Number of cable entries	1
		Cable diameter, min.	5
		Cable diameter, max.	10
		Cable glands	M 16
	Wire connection	Type of connection	Screw connection
		Flexible, max. H05(07) V-K	25 mm <sup>2</sup>
		w. wire end ferrule, DIN 46228 pt 1, max.	16 mm <sup>2</sup>
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 conduit inlets	4		
Number of string inputs per MPP	≤ 2		
Surge protection auxiliary contact	Wire connection	Type of connection	Tension clamp connection with actuator
		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>
	Cable entry	Number of cable entries	1
		Cable diameter, min.	5
		Cable diameter, max.	10
		Cable glands	M 16
Number of inputs	4		

**Outputs**

DC Output + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable cross-section	TÜV 2 Pfg 1169/08.07, EN 50618:2015
		Wire cross-section, min.	4 mm <sup>2</sup>
		Wire cross-section, max.	6 mm <sup>2</sup>
Max. number of DC outputs	per Maximum Power Point 1 output		

**Surge protection DC side**

Discharge current $I_n$ (8/20 µs)	20 kA	Discharge current, max. (8/20 µs)	40 kA
Lightning test current $I_{imp}$ (10/350 µs)	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 µs)	50	Total discharge current $I_{total}$ (10/350 µs)	12.5 kA

**DC load break switch**

Switch disconnector execution	no switch
-------------------------------	-----------

**PVN1M2I4SXFV101TXPX10**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)
**Technical data**
**Classifications**

ETIM 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	EC003857	ETIM 9.0	EC003857
ETIM 10.0	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	ECLASS 14.0	22-57-02-92
ECLASS 15.0	22-57-02-92		

**Tender specification sheets**

## Long specification

Combiner box for inverters with 2Mpp tracker, used to protect the DC side. Max. String voltage Uoc: 1000 V MPPT1: Up to 2 inputs, connected via WM4 C connector compatible with cable type TÜV 2 Pfg 1169/08.07 / EN 50618:2015 1 output connected via WM4 C connector compatible with cable type TÜV 2 Pfg 1169/08.07 / EN 50618:2015 MPPT 2 is identical to MPPT 1 without DC switch 2 surge protection 1000 V type I + II with remote contact Connection of the signal contact via cable glands (8-12mmØ) max. cable cross-section: 1.5mm² Connection of functional earth via cable glands (8-12mmØ) cable cross-section: 16mm² Protection class: IP65 Plastic enclosure Dimensions HxWxD: 186x334x175 mm According to standard, Low-voltage switchgear assemblies - Part 1: General specifications, (IEC 61439-1:2011), BS EN 61439-2:2011

**Approvals**

## Approvals



Approvals MAMID

[https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319222/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/)

**PVN1M2I4SXFV101TXPX10**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)
**Technical data**
**Environmental Product Compliance**

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

**Important note**

Product information	<p>The SCIP number was assigned due to a lead content of more than 0.1 % of the net weight.</p> <p>Safe use instruction according to ECHA:</p> <p>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</p>
---------------------	---

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a> <a href="#">CAD data – PV Next Schematic Diagram 2in1</a>
Technical Documentation	<a href="#">Customer Drawing</a>
User Documentation	<a href="#">Manual PV Next String Combiner Box</a> <a href="#">MANUAL PV NEXT IT/ES/FR</a>
White paper	<a href="#">Fact Sheet DE PV CB Wie man Gebäude gegen Blitzeinschläge schützt</a> <a href="#">Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert</a> <a href="#">Fact Sheet DE PV CB Wann Sicherungen zu installieren sind</a> <a href="#">Fact Sheet DE CB PV NEXT</a> <a href="#">Fact Sheet EN PV CB When DC fuses are mandatory to install</a> <a href="#">Fact Sheet EN CB PV NEXT</a> <a href="#">Fact Sheet EN PV How to protect buildings against lightning strikes</a> <a href="#">Fact Sheet EN PV How to extend the life time of a Combiner Box</a> <a href="#">Fact Sheet DE CB PV Strings kombinieren</a> <a href="#">Fact Sheet EN CB Combining PV strings</a> <a href="#">Fact Sheet EN PV Combiner Box earthing</a> <a href="#">Fact Sheet DE PV Combiner Box Erdung</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

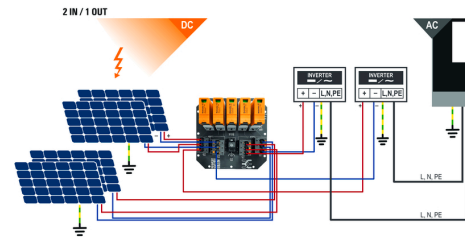
## PVN1M2I4SXFV101TXPX10

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

[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

## PCB design

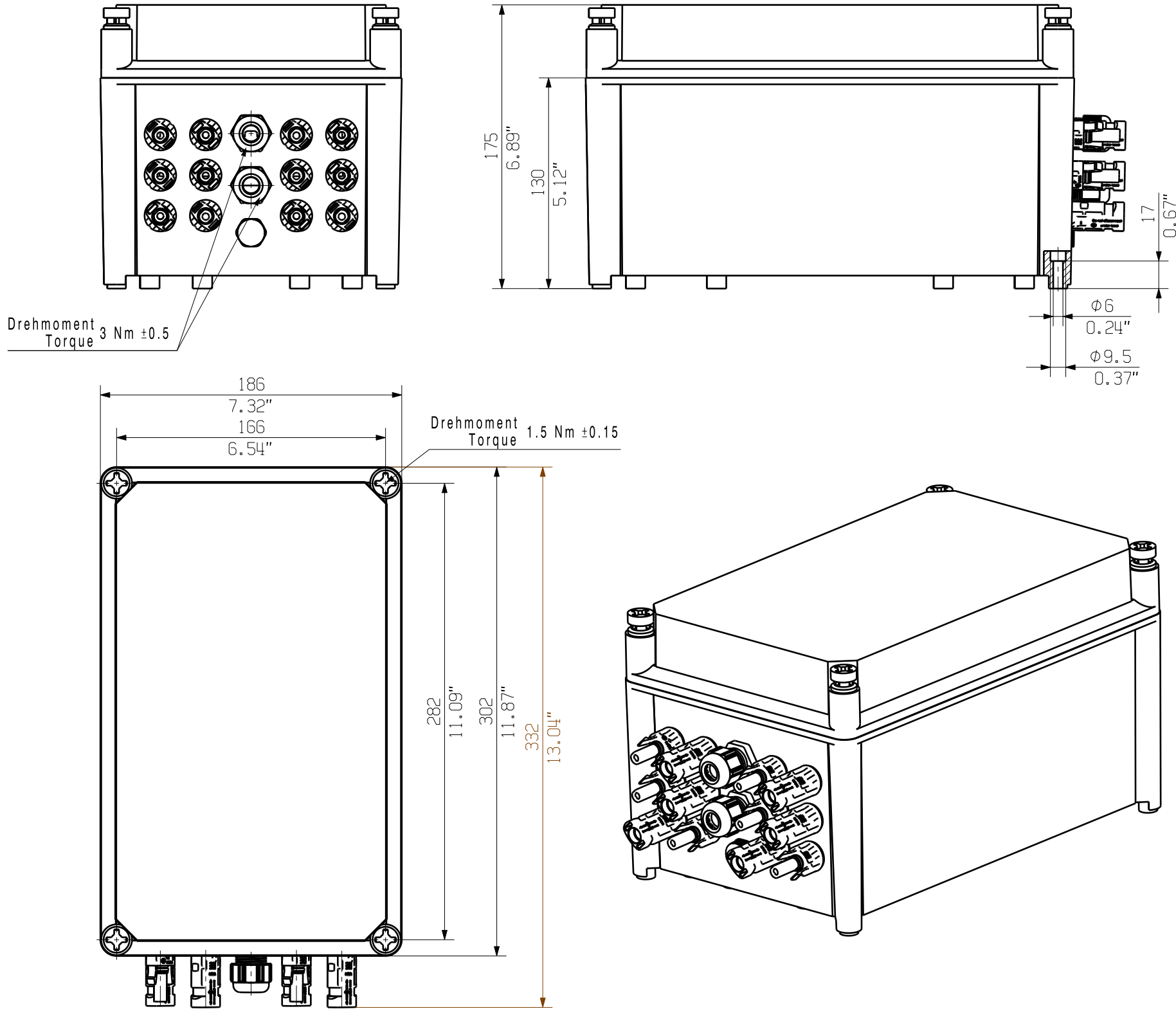


PVN 1 M2 I6 S0 F3 V1 01 TX PX 10									
<b>Series</b>		<b>Voltage</b>		<b>Powersupply</b>		<b>Monitoring</b>		<b>Output Type</b>	
PVN = PV Next		10 = 1kV		x = n/a		x = n/a		0 = DG	
VPU = PV Protect		11 = 1.1kV						1 = VVAC	
		15 = 1.5kV						2 = MCA 5x2	
<b>Level</b>		<b>Inputs</b>		<b>Switch</b>		<b>SPD</b>		<b>Fuses</b>	
1 = DC trunk box (L1)		1..12 inputs		x = n/a		0 = TYP II		x = n/a	
<b>Series</b>				0 = manual switch		1 = TYP I+II		3 = only fuse holders	
1 = 1 MPPT supported				1 = remote switch		X = No SPD			
2 = 2 MPPT supported									
3 = 3 MPPT supported									
4 = 4 MPPT supported									
6 = 6 MPPT supported									

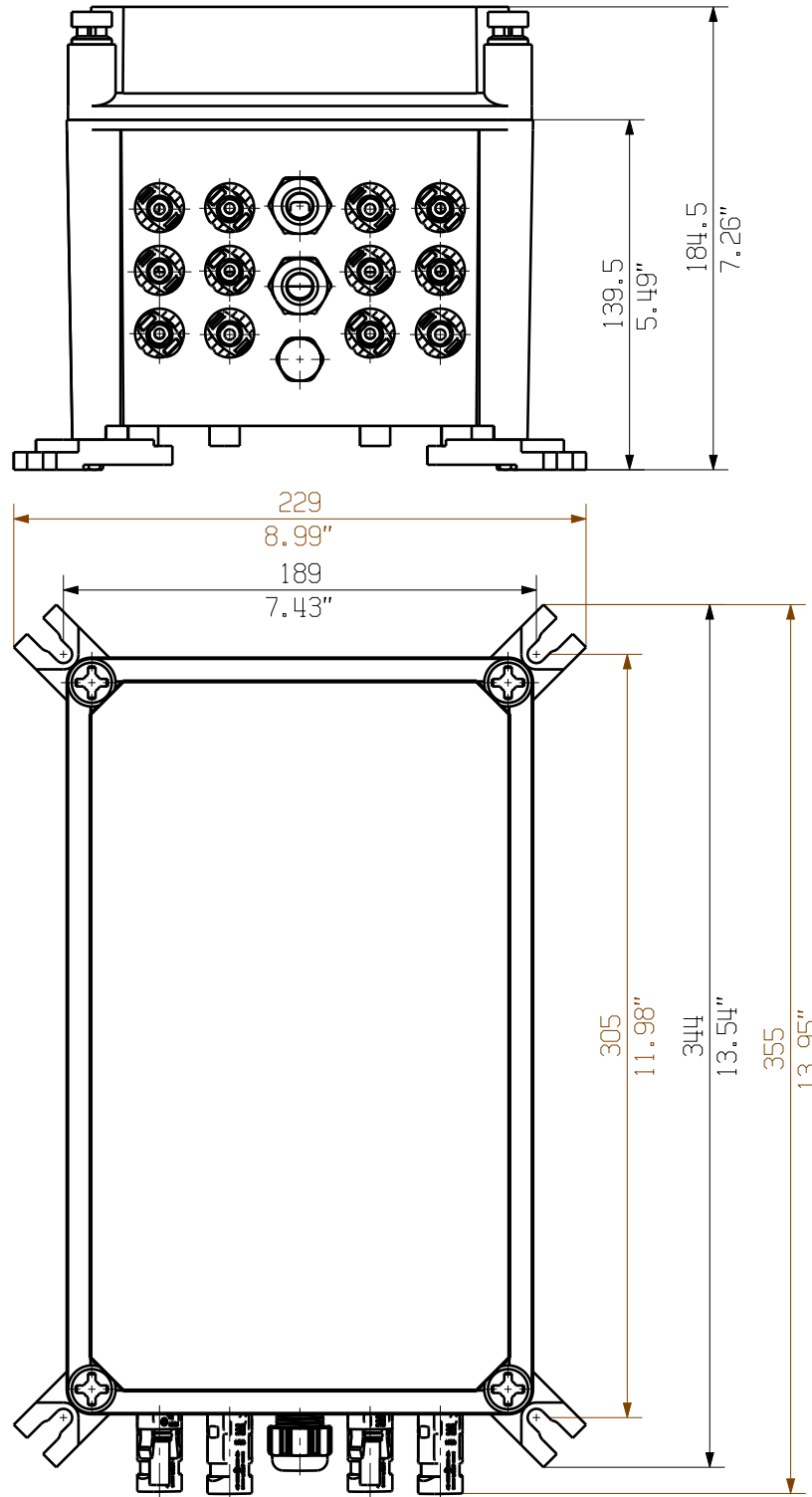
The reproduction, distribution and utilization of this document as well as the communication of its contents to others without explicit authorization is prohibited. Offenders will be held liable for the payment of damages. Weidmüller exclusively reserves the right to file for patents, utility models or designs.

© Weidmüller Interface GmbH & Co. KG

Dimensions without tolerances are no check dimensions





The English version is binding



Darstellung mit Zubehoer  
Shown with accessory

0360800000 MF TBF

Nicht im Lieferumfang enthalten!  
Not included in delivery!

EC00004112	Prim PLM Part No.: 1230338	Prim ERP Part No.: 2737580000
First Issue Date 01.04.2020	Max. nos. Modification	<b>Weidmüller</b> 
	Drawn 22.10.2020 Responsible 22.10.2020 Approved 22.10.2020	<b>72145</b> Drawing no. Sheet 03 of 03 sheets
Scale: 1/3 Size: A3 Drawing Customer	Date 22.10.2020 Name Brüntrup, Anna Wohlgemuth, Kl Püschner, Klau	<b>2737580000 PVN1M2I4SXFV101TXPX10</b> Combinerbox Residential/Commercial Combinerbox Residential/Commercial Product file: