

**PVN1M2I4SXFV100TXPX10**
**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, Cable gland
Order No.	<a href="#">2737590000</a>
Type	PVN1M2I4SXFV100TXPX10
GTIN (EAN)	4032248395569
Qty.	1 pc(s).
Delivery status	<b>Discontinued</b>
Available until	2022-12-31
Replacement parts	<a href="#">2530600000</a> <a href="#">2534300000</a>
Alternative product	<a href="#">2866320000</a>

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

Depth	175 mm	Depth (inches)	6.89 inch
Height	330 mm	Height (inches)	12.992 inch
Width	186 mm	Width (inches)	7.323 inch
Net weight	2,623 g		

**Temperatures**

Ambient temperature	-40 °C...45 °C	Humidity	5 - 90 %, no condensation
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**DC string monitoring**

Monitoring function	Non monitored
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**Approvals and norms**

Approvals	EN 61439-2, IEC 61439-2
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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 voltage		1,000 V
Rated short-term current resistance	Rated current	37.5 A

**Enclosure**

Connection type string	Internal terminal (with cable gland feed-through)	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
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**Inputs**

Amount of maximum power points (MPP)	2		
DC Input + & -	Wire connection	Type of connection	PUSH IN
		Compatible cable crosssection	EN 50618:2015, TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	16 mm <sup>2</sup>
	Cable entry	Number of cable entries	4

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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	2		
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	PUSH IN
		Compatible cable cross-section	TÜV 2 Pfg 1169/08.07, EN 50618:2015
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	16 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 $I_{SCPv}$	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 disconnect execution	no switch
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**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 M25 cable gland with 3x7mm Ø cable entry (for positive and negative one each) PUSH IN connection / 2.5 - 6mm² single-wire, multi-wire, with/without ferrule 1 output connected via M25 cable gland with 3x7mm Ø cable entry (for positive and negative one each) PUSH IN connection / 2.5 - 6mm² single-wire, multi-wire, with/without ferrule 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: 186x330x175 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/)

Creation date July 3, 2025 10:17:50 PM CEST

Catalogue status 21.06.2025 / We reserve the right to make technical changes.

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**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>
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**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>

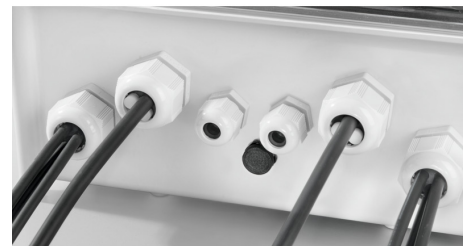
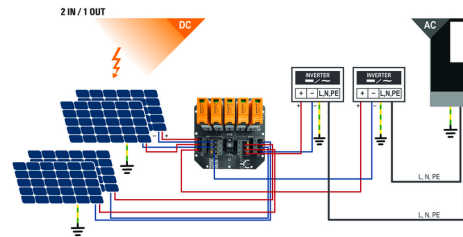
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# Drawings

## PCB design

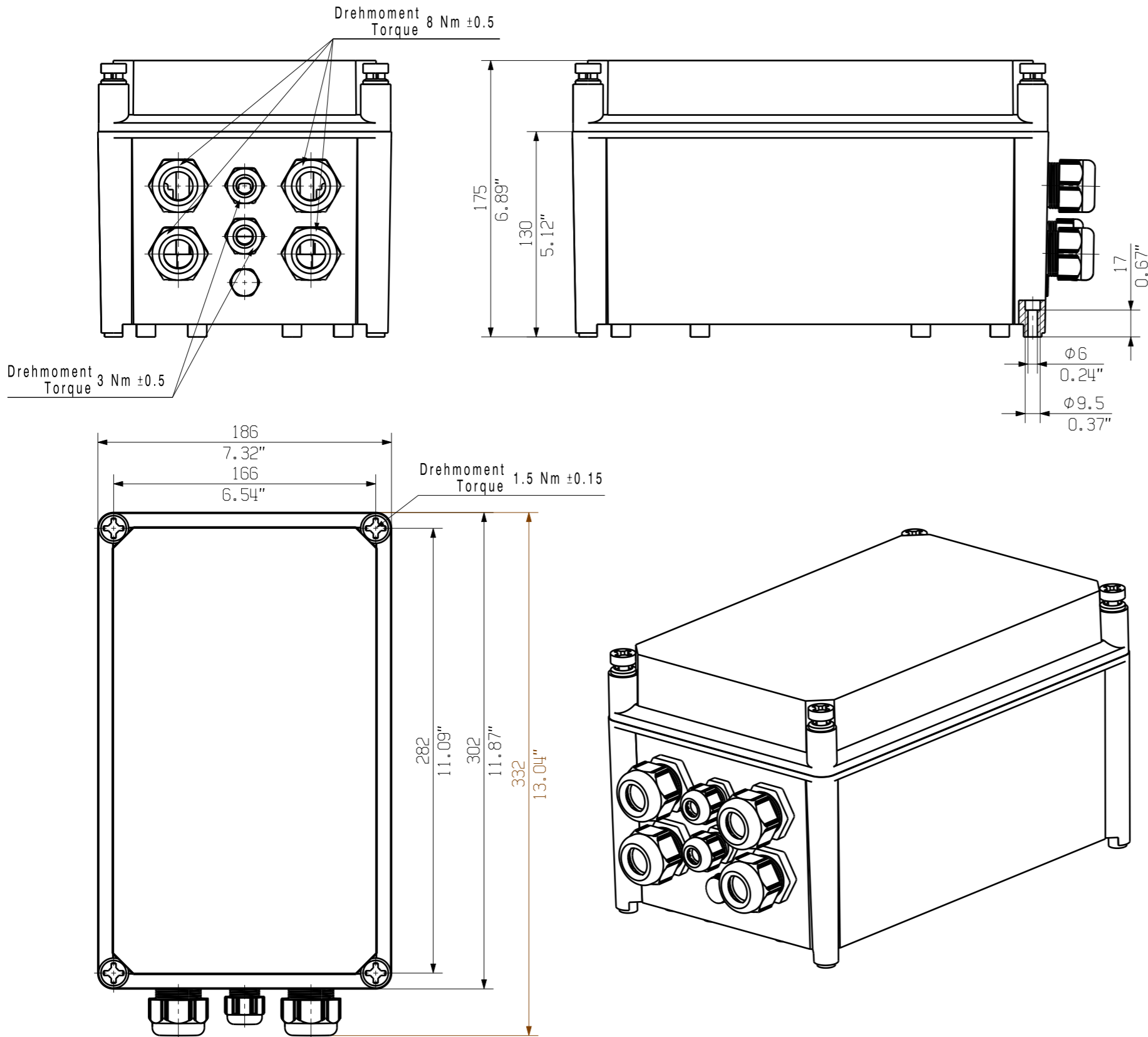


PVN 1 M2 I6 S0 F3 V1 Q1 TX PX 10									
<b>Series</b>		<b>Voltage</b>		<b>Powersupply</b>		<b>Monitoring</b>		<b>Output Type</b>	
PVN = PV Next		10 = 1kV		x = n/a		x = n/a		0 = DG	
VPU = PV Protect		11 = 1.1kV						1 = VVAC	
		15 = 1.5kV						2 = MCA-5m 2	
<b>Level</b>		<b>Inputs</b>		<b>Switch</b>		<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									

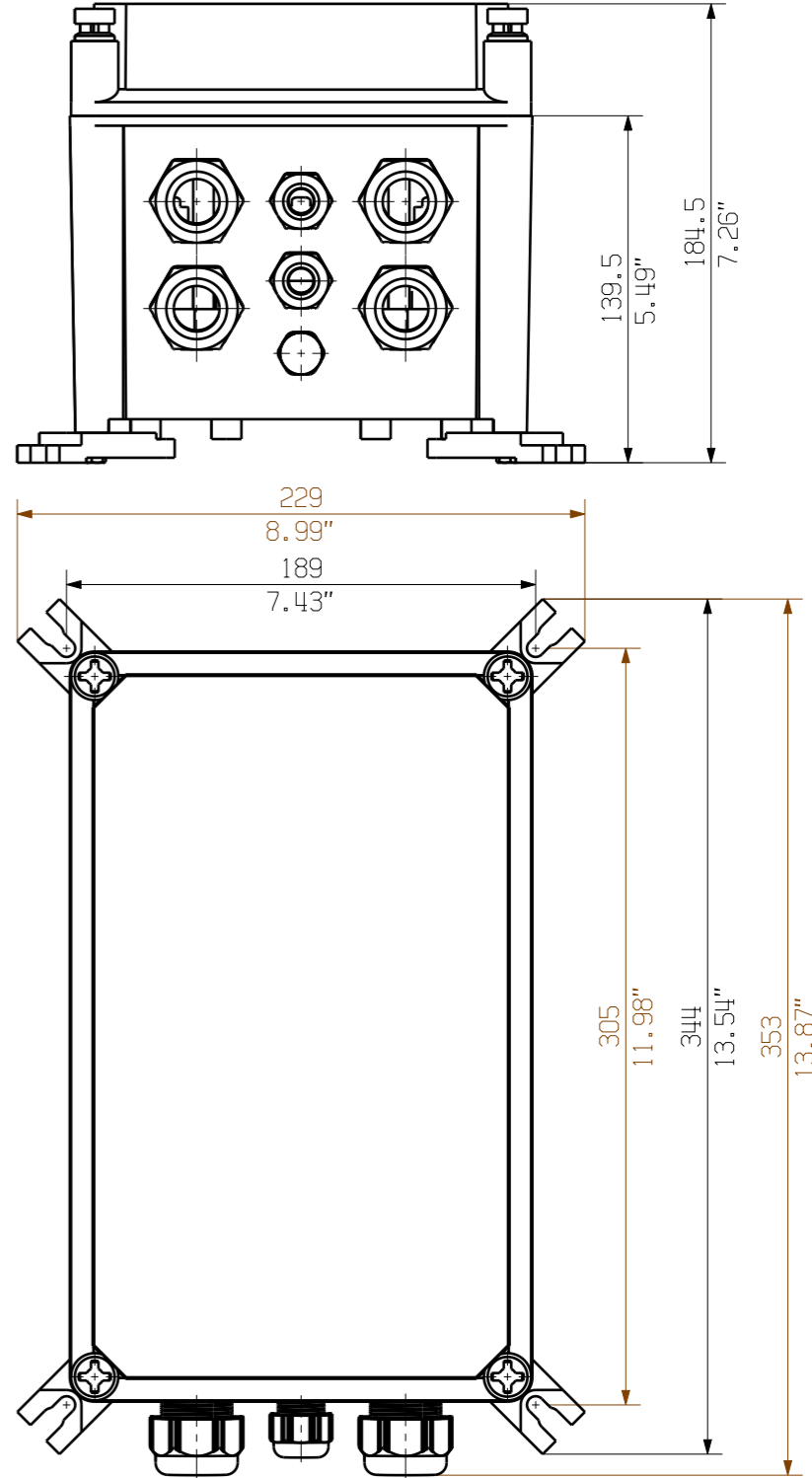
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Dimensions without tolerances are no check dimensions





The English version is binding



Darstellung mit Zubehoer  
Shown with accessory 0360800000 MF TBF

Nicht im Lieferumfang enthalten!  
Not included in delivery!

		Prim PLM Part No.: 1230339		Prim ERP Part No.: 2737590000	
First Issue Date 31.03.2020		Max. nos.		<div><div><b>Weidmüller</b></div><div></div></div> <div>72146</div> <div>Issue no. 0</div>	
		Modification			
			Date	Name	<div>2737590000 PVN1M2I4SXFV100TPX10</div> <div>Combinerbox Residential/Commercial</div> <div>Combinerbox Residential/Commercial</div>
		Drawn	31.03.2020	Brüntrup, Anna	
		Responsible		Wohlgemuth, Kl	
Scale: 1/3      Size: A3		Approved	05.06.2020	Püschner, Klau	
Drawing Customer				Product file:	