

**PVN1M1I6SXF3V1O0TXPX10****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

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 EN 51543-32. 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, 1 MPP, 6 Inputs / 6 Outputs per MPP, With fuse holder, Surge protection I / II, Cable gland |
| Order No.         | <a href="#">2737520000</a>   |
| Type              | PVN1M1I6SXF3V1O0TXPX10   |
| GTIN (EAN)        | 4050118004595  |
| Qty.              | 1 pc(s).   |
| Replacement parts | <a href="#">2530600000</a> <a href="#">2534300000</a>  |

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

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 210 mm  | Depth (inches)  | 8.268 inch  |
| Height     | 330 mm  | Height (inches) | 12.992 inch |
| Width      | 488 mm  | Width (inches)  | 19.213 inch |
| Net weight | 6,416 g |                 |             |

**Temperatures**

|                     |                 |          |                           |
|---------------------|-----------------|----------|---------------------------|
| Ambient temperature | -25 °C...+40 °C | Humidity | 5 - 90 %, no condensation |
|---------------------|-----------------|----------|---------------------------|

**Approvals and norms**

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

**Guarantee**

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

**Electrical characteristics**

Current per Maximum Power Point, max. 90 A

|                                     |                          |         |
|-------------------------------------|--------------------------|---------|
| Rated DC current per connection     | Current per string, max. | 76 A    |
|                                     | Current per string, max. | 90 A    |
| Rated short-term current resistance | Rated current            | 112.5 A |
| Rated DC voltage                    | 1,000 V                  |         |

**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 |
| Protection class       | II   | Switch disconnecter execution | no switch                                       |
| 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 | 1 MPP           |                                |                     |
| Cartridge fuse                 | 10 x 38 mm      |                                |                     |
| DC Input + & -                 | Wire connection | Type of connection             | PUSH IN             |
|                                |                 | Compatible cable cross-section | EN 50618:2015       |
|                                |                 | Wire cross-section, min.       | 2.5 mm <sup>2</sup> |
|                                |                 | Wire cross-section, max.       | 16 mm <sup>2</sup>  |

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|                                    |  |   |  |
|------------------------------------|--|---|--|
| Functional earth connector         | Cable entry  | Number of cable entries                   | 1                                      |
|                                    |  | Cable diameter, min.                      | 5 mm                                   |
|                                    |  | Cable diameter, max.                      | 10 mm                                  |
|                                    |  | 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                          | Empty fuse holder                                      |   |  |
| Fuse-link standard                 | IEC 60269-1, IEC 60269-6, gPV (EN 60269-6)             |   |  |
| Max. number of DC inputs           | per Maximum Power Point 6 inputs connected in parallel |   |  |
| 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  | Cable diameter, min.                      | 5 mm                                   |
|                                    |  | Cable diameter, max.                      | 10 mm                                  |
|                                    |  | Cable glands                              | M 16                                   |

**Outputs**

|                 |                 |                                |                        |
|-----------------|-----------------|--------------------------------|------------------------|
| DC Output + & - | Wire connection | Type of connection             | WM4C plug-in connector |
|                 |                 | Compatible cable cross-section | TÜV 2 Pfg 1169/08.07   |
|                 |                 | Wire cross-section, min.       | 2.5 mm <sup>2</sup>    |
|                 |                 | Wire cross-section, max.       | 16 mm <sup>2</sup>     |
|                 |                 | Type of connection             | Screw connection       |
|                 |                 | Compatible cable cross-section | TÜV 2 Pfg 1169/08.07   |
|                 |                 | Wire cross-section, min.       | 2.5 mm <sup>2</sup>    |
|                 |                 | Wire cross-section, max.       | 50 mm <sup>2</sup>     |

Max. number of DC outputs per Maximum Power Point 7 outputs connected in parallel

**Surge protection DC side**

|  |               |  |               |
|--|---------------|--|---------------|
| Discharge current $I_n$ (8/20 $\mu$ s)             | 20 kA         | Discharge current, max. (8/20 $\mu$ s)                             | 40 kA         |
| Lightning test current $I_{imp}$ (10/350 $\mu$ s)  | 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)                          | $\leq 3.8$ kV |
| Protection level $U_p$ (+/-)                       | $\leq 3.8$ kV | Protection level $U_p$ (+/PE)                                      | $\leq 3.8$ kV |
| Protection level $U_p$ (-/PE)                      | $\leq 3.8$ 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 $\mu$ s) | 50 kA         | Total discharge current $I_{total}$ (10/350 $\mu$ s)               | 12.5 kA       |

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**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 |

**Tender specification sheets**

## Long specification

Combiner box for inverters with 1 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to EN 51543-32.

**MPP1:**

6 inputs, connection via M25 cable gland with 3x7mm Ø cable entry, PUSH IN connection / 2.5 - 6mm<sup>2</sup> single-wire, multi-wire, with/without ferrule.

6 outputs, connection via M25 cable gland with 3x7mm Ø cable entry, PUSH IN connection / 2.5 - 6mm<sup>2</sup> single-wire, multi-wire, with/without ferrule.

Max. string voltage U<sub>oc</sub>: 1000V

1 class/type I + II combined arrester with signal contact

Fuse holders for inputs and outputs (fuses 10x38 to be ordered separately)

Connection of the signal contact via cable glands (8-12mmØ) max. conductor cross-section: 1.5mm<sup>2</sup>

Connection of the functional earth via cable glands (8-12mmØ) Conductor cross-section: 16-25mm<sup>2</sup>

Protection class: IP65

All built into a glass fibre reinforced polyester housing. Dimensions HxWxD: 330x488x210 mm

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

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## Technical data

### Important note

Product information

Fuses are not included

### Approvals

Approvals



### Downloads

Approval/Certificate/Document of Conformity

[EU Declaration of Conformity](#)

Engineering Data

[CAD data – PV Next Schematic Diagram 6In6Out](#)[CAD data – STEP](#)

Technical Documentation

[Customer Drawing](#)

User Documentation

[Manual PV Next String Combiner Box](#)[MANUAL PV NEXT IT/ES/FR](#)

White paper

[Fact Sheet DE PV CB Wie man Gebäude gegen Blitzeinschläge schützt](#)[Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert](#)[Fact Sheet DE PV CB Wann Sicherungen zu installieren sind](#)[Fact Sheet DE CB PV NEXT](#)[Fact Sheet EN PV CB When DC fuses are mandatory to install](#)[Fact Sheet EN CB PV NEXT](#)[Fact Sheet EN PV How to protect buildings against lightning strikes](#)[Fact Sheet EN PV How to extend the life time of a Combiner Box](#)[Fact Sheet DE CB PV Strings kombinieren](#)[Fact Sheet DE PV CB Richtig verbinden](#)[Fact Sheet EN CB Combining PV strings](#)[Fact Sheet EN PV CB connection](#)[Fact Sheet EN PV Combiner Box earthing](#)[Fact Sheet DE PV Combiner Box Erdung](#)

Catalogues

[Catalogues in PDF-format](#)

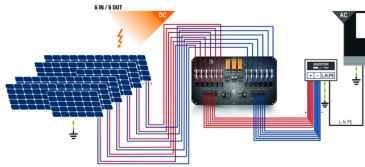
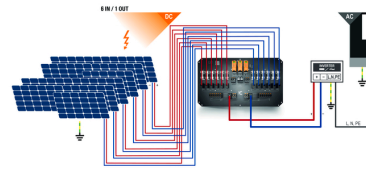
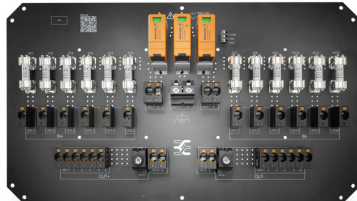
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## Drawings

### PCB design



| PVN 1 M2 I6 S0 F3 V1 O1 TX PX 10 |  |                |  |                     |  |                       |  |                    |  |
|----------------------------------|--|----------------|--|---------------------|--|-----------------------|--|--------------------|--|
| <b>Series</b>                    |  | <b>Voltage</b> |  | <b>Power supply</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 = VMAAC          |  |
|                                  |  | 15 ~ 1.5kV     |  |                     |  |                       |  | 2 = MCA-5m 2       |  |
| <b>Level</b>                     |  | <b>Inputs</b>  |  | <b>Switch</b>       |  | <b>Fuses</b>          |  | <b>SPD</b>         |  |
| 1 = DC trunk box (L1)            |  | 1..12 inputs   |  | x = n/a             |  | 3 = only fuse holders |  | 0 = TYP II         |  |
| <b>Series</b>                    |  |                |  | 0 = manual switch   |  |                       |  | 1 = TYP I+II       |  |
| 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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[www.weidmueller.com](http://www.weidmueller.com)**Replacement parts****Spare Arrester****General ordering data**

|            |                            |  |
|------------|----------------------------|--|
| Type       | VPU PV I+II OM 1000        | Version  |
| Order No.  | <a href="#">2534300000</a> | Surge voltage arrester, Low voltage, Surge protection I / II, Spare    |
| GTIN (EAN) | 4050118545906              | arrester   |
| Qty.       | 9 pc(s).                   |  |
| Type       | VPU PV I+II O 1000         | Version  |
| Order No.  | <a href="#">2530600000</a> | Surge voltage arrester, Low voltage, Accessories, Surge protection I / |
| GTIN (EAN) | 4050118540819              | II, Spare arrester   |
| Qty.       | 9 pc(s).                   |  |

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## Accessories

### External fixing lugs



The enclosures of the TBF series are made of extremely tough glass fibre-reinforced polyester. These enclosures are ideal for applications that call for low weight coupled with high shock resistance. The weather-resistant TBF enclosures are designed for a wide range of applications. Together with their comprehensive range of accessories, they provide universal solutions for accommodating built-in items such as regulators, measuring instruments, valves and other equipment.

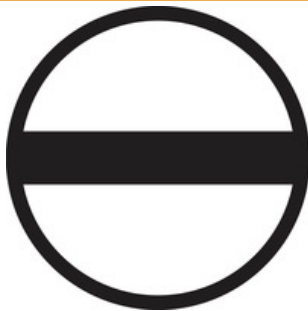
**Features:**

- 9 sizes in 2 versions, with grey and transparent lids
- Cover with nylon screws
- Fixing holes outside the sealed area
- Thread for fitting to terminal rails and mounting plates
- Comprehensive accessories
- Weidmüller can manufacture and supply this enclosure to match customer specifications, fitted with all necessary terminals and cable glands.

### General ordering data

| Type       | MF TBF                     | Version  |
|------------|----------------------------|--|
| Order No.  | <a href="#">0360800000</a> | TBF (polyester empty enclosure), Mounting foot, Fixing lugs, Height: |
| GTIN (EAN) | 4008190108595              | 72.5 mm, Width: 24 mm, Depth: 12 mm, Material: Polyamide, Deep       |
| Qty.       | 1 pc(s).                   | black  |

### Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

### General ordering data

| Type       | SDIS 0.6X3.5X100           | Version   |
|------------|----------------------------|---|
| Order No.  | <a href="#">2749810000</a> | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118897012              | thickness (A): 0.6 mm   |
| Qty.       | 1 pc(s).                   |   |
| Type       | SDIS 1.0X5.5X125           | Version   |
| Order No.  | <a href="#">2749850000</a> | Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade |
| GTIN (EAN) | 4050118897050              | thickness (A): 1 mm   |
| Qty.       | 1 pc(s).                   |   |



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## Accessories

### 10x38 gPV



The gPV cylindrical fuse cartridges are designed to provide compact, safe and economical protection of photovoltaic modules (field protection) with voltages up to 1,500 DC. They provide protection against both overload and short circuit (gPV class according to the requirements of IEC60269-6 and UL248-19 standards). Made of a ceramic tube with high internal pressure and thermal shock resistance, allowing high switching capacity in a small space. The contacts are made of silver-plated copper and the fusible elements of pure silver to avoid ageing and thus keep the electrical characteristics invariable. They are available in the sizes 10x38 mm, 10x85 mm and 22x58 mm.

### General ordering data

|            |                             |   |
|------------|-----------------------------|---|
| Type       | FUSE 10X38 20A 1000 VDC ... | Version   |
| Order No.  | <a href="#">2783280000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 20 A |
| GTIN (EAN) | 4064675060000               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 12A 1000 VDC ... | Version   |
| Order No.  | <a href="#">2783240000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 12 A |
| GTIN (EAN) | 4064675059967               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 1A 1000 VDC ...  | Version   |
| Order No.  | <a href="#">2783160000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 1 A  |
| GTIN (EAN) | 4064675059684               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 5A 1000 VDC ...  | Version   |
| Order No.  | <a href="#">2783200000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 5 A  |
| GTIN (EAN) | 4064675059929               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 4A 1000 VDC ...  | Version   |
| Order No.  | <a href="#">2783190000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 4 A  |
| GTIN (EAN) | 4064675059912               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 6A 1000 VDC ...  | Version   |
| Order No.  | <a href="#">2783210000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 6 A  |
| GTIN (EAN) | 4064675059936               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 8A 1000 VDC ...  | Version   |
| Order No.  | <a href="#">2783220000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 8 A  |
| GTIN (EAN) | 4064675059943               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 16A 1000 VDC ... | Version   |
| Order No.  | <a href="#">2783260000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 16 A |
| GTIN (EAN) | 4064675059981               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 10A 1000 VDC ... | Version   |
| Order No.  | <a href="#">2783230000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 10 A |
| GTIN (EAN) | 4064675059950               |   |
| Qty.       | 10 pc(s).                   |   |

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## Accessories

|            |                             |   |
|------------|-----------------------------|---|
| Type       | FUSE 10X38 2A 1000 VDC ...  | Version   |
| Order No.  | <a href="#">2783170000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 2 A  |
| GTIN (EAN) | 4064675059691               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 15A 1000 VDC ... | Version   |
| Order No.  | <a href="#">2783250000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 15 A |
| GTIN (EAN) | 4064675059974               |   |
| Qty.       | 10 pc(s).                   |   |
| Type       | FUSE 10X38 3A 1000 VDC ...  | Version   |
| Order No.  | <a href="#">2783180000</a>  | Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 3 A  |
| GTIN (EAN) | 4064675059905               |   |
| Qty.       | 10 pc(s).                   |   |

## PV Sun Covers



### General ordering data

|            |                            |               |
|------------|----------------------------|---------------|
| Type       | PV SUN COVER 56/30/21      | Version       |
| Order No.  | <a href="#">8000087025</a> | Photovoltaics |
| GTIN (EAN) | 4064675845188              |               |
| Qty.       | 1 pc(s).                   |               |

## 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).                   |  |

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## Accessories

### Crosshead screwdriver Phillips



VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

#### General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | SDIK PH3 X 150             | Version  |
| Order No.  | <a href="#">2749910000</a> | Screwdriver, Blade width (B): 3 mm, 150 mm, Blade thickness (A): 3 |
| GTIN (EAN) | 4050118897210              |  |
| Qty.       | 1 pc(s).                   |  |

### SL Set PV NEXT



The "**SL SET PV NEXT**" allows the insertion of up to four cables through one cable gland whilst keeping a tight seal.

#### General ordering data

|            |                            |               |
|------------|----------------------------|---------------|
| Type       | SL SET PV NEXT             | Version       |
| Order No.  | <a href="#">2729230000</a> | Photovoltaics |
| GTIN (EAN) | 4050118804508              |               |
| Qty.       | 1 pc(s).                   |               |

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[www.weidmueller.com](http://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.  | <a href="#">2659350000</a> | Cable ties, 4,5 x 290 mm, Polyamide 66, 220 N |
| GTIN (EAN) | 4050118682816              |   |
| Qty.       | 100 pc(s).                 |   |

**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**

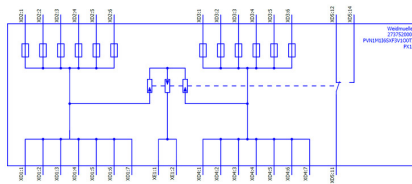
|            |                            |                                  |
|------------|----------------------------|----------------------------------|
| Type       | MULTI-STRIPAX PV           | Version                          |
| Order No.  | <a href="#">1190490000</a> | Photovoltaics, Plug-in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

## PVN1M1I6SXF3V1O0TXPX10

**Weidmüller Interface GmbH & Co. KG**  
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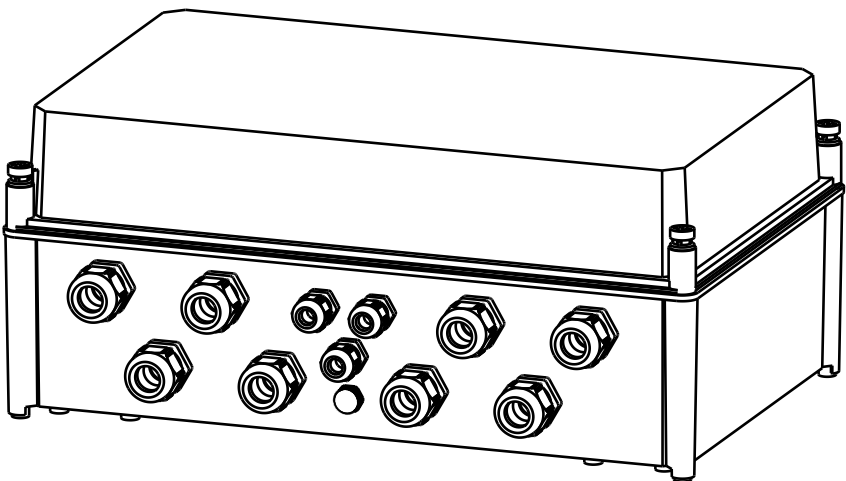
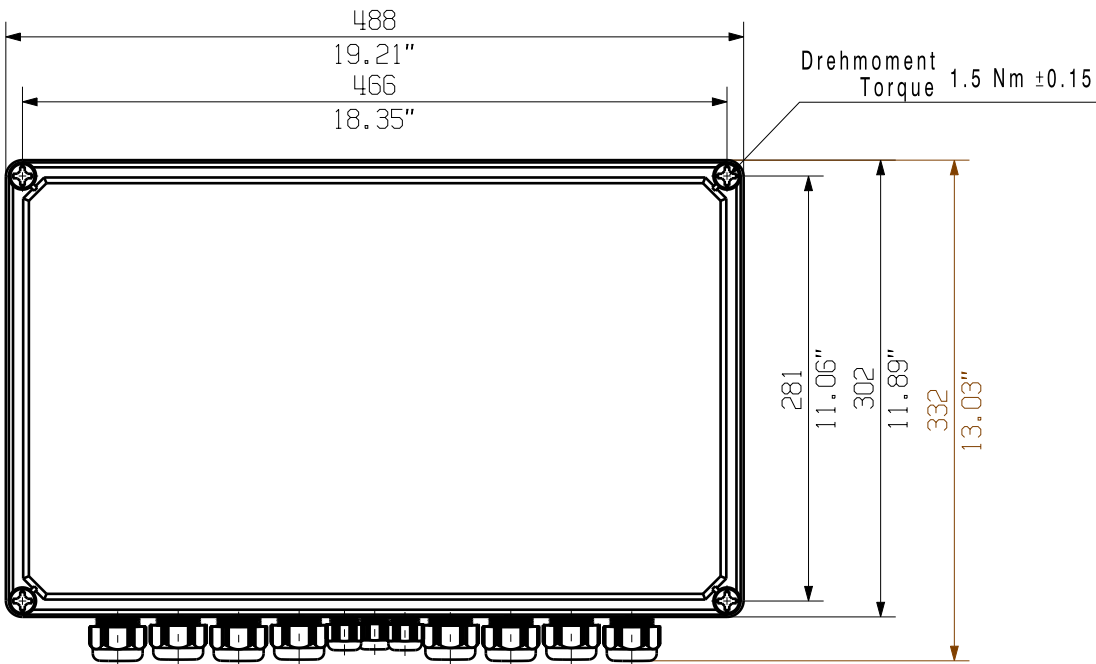
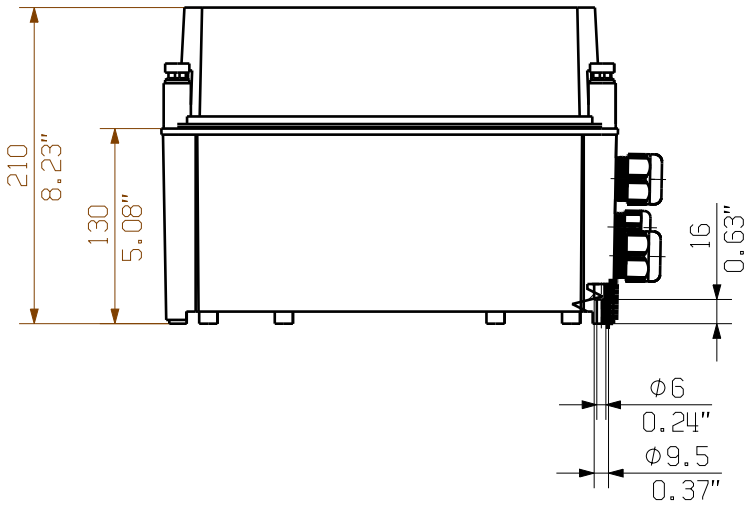
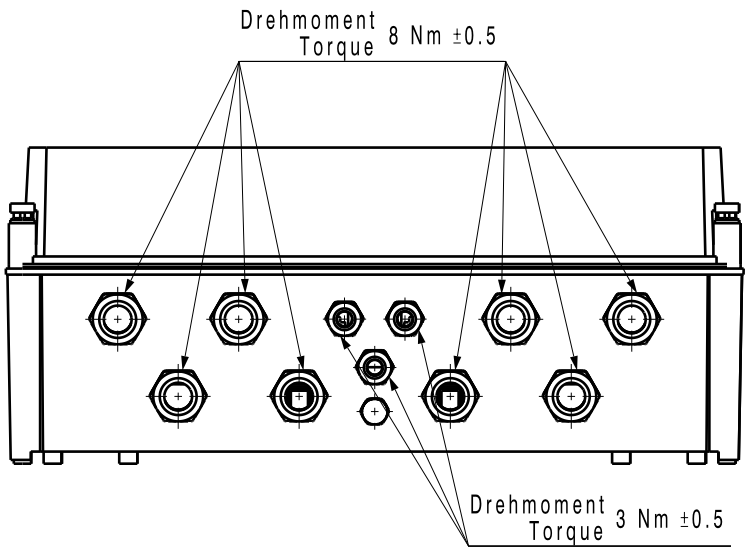
# Drawings



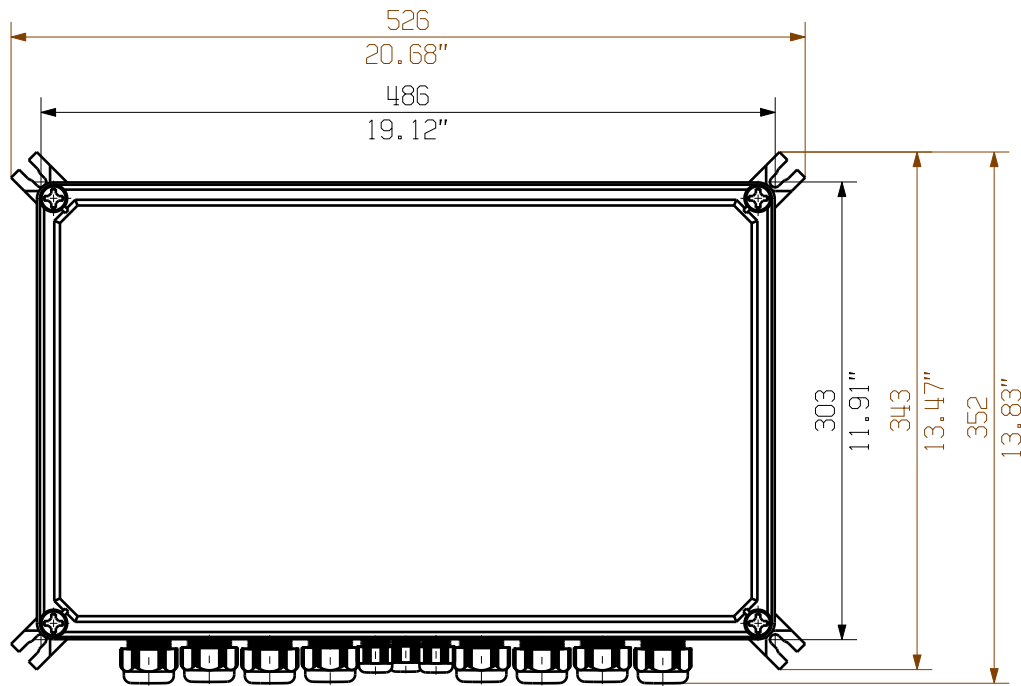
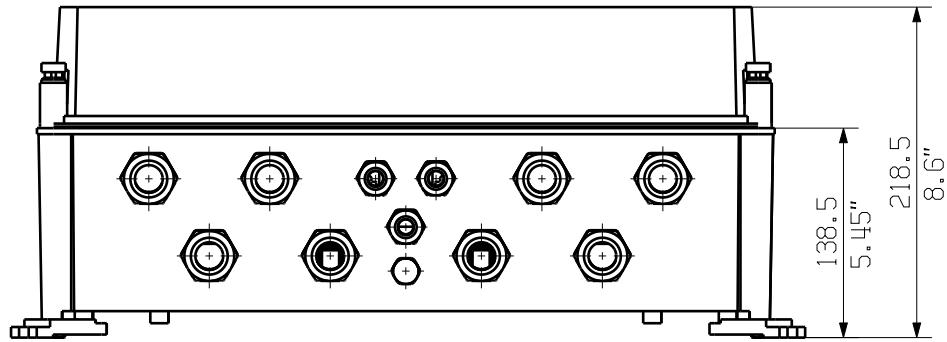
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Dimensions without tolerances are no check dimensions





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.: 1230334 |   | Prim ERP Part No.: 2737520000  |  |
| First Issue Date<br>24.03.2020  | Max. nos.    |                            | <b>Weidmüller</b>  |  | <b>72141</b><br>Drawing no. Issue no.<br>Sheet 03 of 03 sheets |
|   | Modification |                            |   |  |  |
|  |              | Date                       | Name  | <b>2737520000 PVN1M1I6SXF3V100TXPX10</b><br>Combinerbox Residential/Commercial<br>Combinerbox Residential/Commercial |  |
|   | Drawn        | 24.03.2020                 | Brüntrup, Anna  |  |  |
|   | Responsible  |                            | Wohlgemuth, KI  |  |  |
| Scale: 1/5      Size: A3  | Approved     | 03.06.2020                 | Püschner, Klau  |  |  |
| Drawing Customer  |              |                            | Product file:   |  |  |