

KTB FS 453820 S4E3**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Similar to illustration**

Abbildung ähnlich

The Klippon® TB enclosure range provides excellent performance characteristics, even under the most difficult environmental conditions. In addition, it complies with the stricter requirements of potentially explosive atmospheres found in process or power generation industries. The Klippon® TB FS enclosure range offers further improvements to a product line that is already successfully leading the market.

The Klippon® TB FS enclosure range features the following advantages:

- Available in 12 sizes and 3 standard depths
- Equipped with up to 4 gland plates
- The gasket is protected against compression
- Cover lock outside the sealed zone
- Improved temperature performance
- IP66/IP67 protection
- Earthing stud in the cover and base of the enclosure
- Welded mounting feet

General ordering data

| | |
|------------|--|
| Version | Klippon TB FS (Terminal Box - Fixing Screw), Empty enclosure, stainless steel enclosure, Height: 458 mm, Width: 382 mm, Depth: 200 mm, Gland plates: Bottom, left, right, Material: Stainless steel 1.4404 (316L), electropolished, silver |
| Order No. | 1196180000 |
| Type | KTB FS 453820 S4E3 |
| GTIN (EAN) | 4032248978793 |
| Qty. | 1 pc(s). |

KTB FS 453820 S4E3
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Technical data
Dimensions and weights

| | | | |
|-----------------------------|---------|----------------------------|-------------|
| Depth | 200 mm | Depth (inches) | 7.874 inch |
| Height | 458 mm | Height (inches) | 18.031 inch |
| Width | 382 mm | Width (inches) | 15.039 inch |
| Mounting dimension - height | 305 mm | Mounting dimension - width | 438 mm |
| Net weight | 5,040 g | | |

Temperatures

| | | |
|-----------------------|----------------------------------|---|
| Operating temperature | Note: room temperature (service) | Limited to IP66 protection when used in temperatures greater than 105 °C. |
| -60 °C...135 °C | | |

Cable glands, left

| | | | |
|-----|----|-----|----|
| M12 | 55 | M16 | 38 |
| M20 | 24 | M25 | 21 |
| M32 | 11 | M40 | 9 |
| M50 | 4 | M63 | 3 |
| M75 | 3 | | |

Cable glands, right

| | | | |
|-----|----|-----|----|
| M12 | 55 | M16 | 38 |
| M20 | 24 | M25 | 21 |
| M32 | 11 | M40 | 9 |
| M50 | 4 | M63 | 3 |
| M75 | 3 | | |

Cable glands, top/bottom

| | | | |
|-----|----|-----|----|
| M12 | 50 | M16 | 34 |
| M20 | 23 | M25 | 18 |
| M32 | 10 | M40 | 8 |
| M50 | 4 | M63 | 3 |
| M75 | 2 | | |

Certificate numbers enclosure

| | | | |
|---|--|--|---------------------------|
| Approval conditions | ATEX, CCeE, DNV, IECEx, INMETRO, KC, NEPSI, CCC, UL AEx Class Div., UL AEx Class Zone, cULus | Attestation of Conformatiy No. (AoC) | |
| Certificate No. (ATEX) | KEMA10ATEX0046U | Certificate No. (DNV) | TAE000013S |
| Certificate No. (IECEX) | IECEXKEM10.0017 | Certificate No. Electronic Box (NEPSI) | 2020322303003289 |
| Certificate No. UL 508A | E223801 | Certificate No. UL Haz.Loc. | E223792 |
| Certificate No. UL Ord.Loc. | E243298 | Certificate No. UL Terminal Box | E223792 |
| Certificate no. (INMETRO) | IEX17.0020U | Certificate no. (cULus) | E256877 |
| Certificate no. Terminal Box (AEx) | E223792 | Certificate no. Terminal Box (ATEX) | IBExU14ATEX1050 |
| Certificate no. Terminal Box (IECEX) | IECEXIBE14.0013 | Certificate no. Terminal Box (INMETRO) | LMP 21.0017 |
| Certificate no. Terminal Box (KOSHA) | 16-AV4BO-0245X | Certificate no. empty enclosure (ATEX) | IBExU14ATEX1028 U |
| Certificate no. empty enclosure (ECAS) | 21-09-25241/ E21-09-053807 | Certificate no. empty enclosure (IECEX) | IECEX IBE 14.0004U |
| Certificate no. empty enclosure (INMETRO) | LMP 21.0016U | Declaration of Conformatiy No. (DoC LVD) | DE PS261X 160412 001ISS02 |

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Technical data
General information

| | | | |
|---------------------------------|--|------------------------------|---|
| AF size | 10 mm | Access opening: height | 428 mm |
| Access opening: width | | Areas of use | Explosive risk zone, Process industry, Oil and gas industry, Chemical industry, Offshore, Onshore |
| | 352 mm | | |
| Dimension of box | | Enclosure attachment | 4 welded-on mounting feet with 11 mm holes (2 slotted feet and 2 cross-shaped feet) |
| | 580x620x290 | | |
| Flange plate | | Flange plate mounting | M6 hexagonal head screws 10 SW |
| | Yes | | |
| Gland plates | | Impact resistance | 7 J ATEX version, 10 J version standard |
| | Bottom, left, right | | |
| Integral fixing | 4, 6 or 9 stud bolts M6 inner (female) thread | Lid attachment | M6 hex-head slotted screws SW10 |
| Material | Stainless steel 1.4404 (316L) | Material thickness of cover | 1.5 mm |
| Material thickness of enclosure | 1.5 mm | Material thickness of flange | 3 mm |
| Max. payload | | Note: protection class | If used in temperature ranges above 105 °C, IP protection is limited to IP 66. |
| | 70 kg | | |
| Number of lid screws | 4 | Operating temperature, max. | 135 °C |
| Operating temperature, min. | -60 °C | Overall dimensions | 469 x 463 x 208.5 |
| Position PE bolts | Enclosure side C | Protection class (UL) | Type 3, Type 4X, Type 12 |
| Protection degree | IP66, IP67 | Seal material | Silicone |
| Standards | DIN EN 62208 - Empty enclosure standard, DIN EN 15085-2, EN 60079-0, EN 60079-7, EN 60079-31, IEC 60079-0, IEC 60079-7, IEC 60079-31 | Surface finish | |
| | | | electropolished |
| Torque for lid screws | 2.5 Nm | | |

Housing earth

| | |
|----------------------------|---|
| Earth, enclosure, internal | Welded-on M6 stainless-steel earth stud in enclosure body and lid., Continuous M10 earth stud in body enclosure |
|----------------------------|---|

horizontal assembly

| | | | |
|-----------------------------|------|-----------------|------|
| WDU 10 / ZDU 10 | 2x29 | WDU 16 / ZDU 16 | 2x24 |
| WDU 2,5 / ZDU 2,5 / IDU 2,5 | 4x58 | WDU 35 / ZDU 35 | 1x18 |
| WDU 4 / ZDU 4 | 3x48 | WDU 6 / ZDU 6 | 3x36 |

vertical assembly

| | | | |
|-----------------------------|------|-----------------|------|
| WDU 10 / ZDU 10 | 2x37 | WDU 16 / ZDU 16 | 2x31 |
| WDU 2,5 / ZDU 2,5 / IDU 2,5 | 3x73 | WDU 35 / ZDU 35 | 1x23 |
| WDU 4 / ZDU 4 | 2x62 | WDU 6 / ZDU 6 | 2x46 |

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www.weidmueller.com**Technical data****Classifications**

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002503 | ETIM 7.0 | EC002503 |
| ETIM 8.0 | EC002503 | ETIM 9.0 | EC002503 |
| ECLASS 9.0 | 27-18-05-02 | ECLASS 9.1 | 27-18-05-02 |
| ECLASS 10.0 | 27-18-05-02 | ECLASS 11.0 | 27-18-05-02 |
| ECLASS 12.0 | 27-18-05-02 | ECLASS 13.0 | 27-18-05-02 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 8d5fcdfe-c58e-44e1-a6b4-74d2bbccc9dd |

Approvals

Approvals



| | |
|-------------------------|------------|
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E256877 |

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Technical data

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | CCC 2020322303002358 KTB Assembly Enclosure CCC 2020322303002357 KTB Empty Enclosure Attestation of Conformity - Klippon TB Empty Enclosures - AoC DE PS261X 160309 001ISS06 IBEXU14ATEX1028U IBEXU14ATEX1050 IECEXIBE14.0004U IECEXIBE14.0013 TAE000013S GYJ14.1310X IECEXPTB11.0071 PTB11ATEX2019 16-AV4BO-245X P4610581_1 24-01-100099/E24-01-102546/NB10 LMP 21.0017 - CAIXA DE JUNÇÃO KLIPPON TB - KTB MH QL FS CERTIFICADO - LMP 21.0016U KLIPPON TB CERTIFICADO LMP 21.0017 KLIPPON TB EU Declaration of Conformity - Klippon TB Empty Enclosures - DoC DE PS261X 160412 001ISS03 |
| Engineering Data | CAD data – STEP |
| Tender specification | Klippon TB FS 453820 S4E3_1196180000_DE Klippon TB FS 453820 S4E3_1196180000_EN Klippon TB FS 453820 S4E3_1196180000_NL |
| User Documentation | Assembly guidelines - empty enclosures |
| Catalogues | Catalogues in PDF-format |
| Brochures | MB OVERV. PROCESS WD DE MB KLIPPON ENCL.TECN EN MB PROCESS EN FL WIND 2012 EN FL APPL PROCESS EN FL SHIPBUILDING 2016 EN FL RAILWAY 2014 EN PI KLIPPON TB MH QL EN |

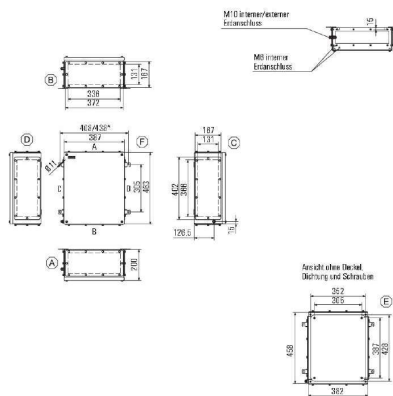
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Drawings

Dimensioned drawing



KTB FS 453820 S4E3**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com**Accessories****Gland plates without earthing studs****Integrate, expand and customise: The ideal expansion for every application**

The consistent structure of accessories for the new

Klippon® TB enclosure range means that you can easily adapt the enclosure to the specific requirements of each application.

Flange plates

Flange plates in two thicknesses, for easy replacement of pre-assembl

General ordering data

| | | |
|------------|----------------------------|--|
| Type | KTB GP 453820 AB S4 | Version |
| Order No. | 1281090000 | Klippon TB (Terminal Box), flange plate, straight, Height: 372 mm, |
| GTIN (EAN) | 4050118072020 | Width: 167 mm, Depth: 3 mm, Gland plates: top, Bottom, Material: |
| Qty. | 1 pc(s). | Stainless steel 1.4404, electropolished, silver |
| Type | KTB GP 453820 CD S4 | Version |
| Order No. | 1281100000 | Klippon TB (Terminal Box), flange plate, straight, Height: 402 mm, |
| GTIN (EAN) | 4050118071641 | Width: 167 mm, Depth: 3 mm, Gland plates: left, right, Material: |
| Qty. | 1 pc(s). | Stainless steel 1.4404, electropolished, silver |

Gland plates made out of stainless steel - 6 mm**Integrate, expand and customise: The ideal expansion for every application**

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Flange plates

Flange plates in two thicknesses, for easy replacement of pre-assembl

General ordering data

| | | |
|------------|----------------------------|--|
| Type | KTB GP 453820 CD S4 6MM | Version |
| Order No. | 1256520000 | Klippon TB (Terminal Box), flange plate, straight, Height: 402 mm, |
| GTIN (EAN) | 4050118093896 | Width: 167 mm, Depth: 6 mm, Gland plates: left, right, Material: |
| Qty. | 1 pc(s). | Stainless steel 1.4404, electropolished, silver |
| Type | KTB GP 453820 AB S4 6MM | Version |
| Order No. | 1256510000 | Klippon TB (Terminal Box), flange plate, straight, Height: 372 mm, |
| GTIN (EAN) | 4050118093889 | Width: 167 mm, Depth: 6 mm, Gland plates: top, Bottom, Material: |
| Qty. | 1 pc(s). | Stainless steel 1.4404, electropolished, silver |

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Accessories

Stainless steel 1.4404 (316L)



Integrate, expand and customise: The ideal expansion for every application

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Rain Covers

The rain cover provides an ideal, additional level of protection for the enclosure if it is installed in unusual climatic zones with, for instance, very heavy rainfall or extreme levels of direct sunlight.

General ordering data

| Type | KTB RNHD 453820 S4E R | Version |
|------------|----------------------------|---|
| Order No. | 1314200000 | Klippon TB (Terminal Box), Rain hood, Height: 55.9 mm, Width: 387 |
| GTIN (EAN) | 4050118117523 | mm, Depth: 211.2 mm, Material: Stainless steel 1.4404 (316L), |
| Qty. | 1 pc(s). | electropolished, silver |

458 x 382mm



Integrate, expand and customise: The ideal expansion for every application

The consistent structure of accessories for the new Klippon® TB enclosure range means that you can easily adapt the enclosure to the specific requirements of each application.

Mounting plates

Mounting plates, with and without hole patterns, for longitudinal and transverse mounting of DIN mounting rails or components directly onto the mounting plate.

General ordering data

| Type | KTB MOPL 4538 MSZN | Version |
|------------|----------------------------|--|
| Order No. | 1193990000 | Klippon TB (Terminal Box), Mounting plate, Height: 403 mm, Width: 321 mm, Depth: 1.5 mm, Material: Sheet steel, galvanized, silver |
| GTIN (EAN) | 4050118028591 | |
| Qty. | 1 pc(s). | |
| Type | KTB MOPL 4538 S2N | Version |
| Order No. | 1193860000 | Klippon TB (Terminal Box), Mounting plate, Height: 403 mm, Width: 321 mm, Depth: 1.5 mm, Material: Stainless steel 1.4301 (304), untreated, silver |
| GTIN (EAN) | 4050118028461 | |
| Qty. | 1 pc(s). | |
| Type | KTB MOPL 4538 MSZN H | Version |
| Order No. | 2022590000 | Klippon TB (Terminal Box), Mounting plate, prepunched, Height: 403 mm, Width: 321 mm, Depth: 1.5 mm, Material: Sheet steel, galvanized, silver |
| GTIN (EAN) | 4050118403657 | |
| Qty. | 1 pc(s). | |
| Type | KTB MOPL 4538 S2N H | Version |
| Order No. | 1257700000 | Klippon TB (Terminal Box), Mounting plate, prepunched, Height: 403 mm, Width: 321 mm, Depth: 1.5 mm, Material: Stainless steel 1.4301 (304), untreated, silver |
| GTIN (EAN) | 4050118049411 | |
| Qty. | 1 pc(s). | |

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Accessories

Depth 7.5 mm



General ordering data

| | | |
|------------|----------------------------|--|
| Type | TS35X7.5 ST KTB4538 HOR | Version |
| Order No. | 8000006724 | Rail, TS 35, TS 35 x 7.5, Width: 321 mm, without slot, Steel, |
| GTIN (EAN) | 4050118652925 | galvanized, chromium-plated |
| Qty. | 20 pc(s). | |
| Type | TS35X7.5 ST KTB4538 VER | Version |
| Order No. | 8000006713 | Rail, TS 35, TS 35 x 7.5, Width: 403 mm, without slot, Steel, galvanic |
| GTIN (EAN) | 4050118652864 | zinc plated and passivated |
| Qty. | 20 pc(s). | |

Document holders



Integrate, expand and customise - the perfect supplement to every application

The fully structured range of system accessories for the new Klippon® TB enclosure series allows you to easily adapt the enclosures to meet the specific requirements of every application.

Document holders

Document holders for the proper storage of documents in the enclosure

General ordering data

| | | |
|------------|----------------------------|--|
| Type | DOHA KTB A6 S2 R | Version |
| Order No. | 1252780000 | Klippon TB (Terminal Box), Document holders, Riveted, Height: 110 |
| GTIN (EAN) | 4050118045512 | mm, Width: 130 mm, Depth: 20 mm, Material: Stainless steel 1.4301, |
| Qty. | 1 pc(s). | Mirror polished, silver |
| Type | DOHA KTB A5 S2 R | Version |
| Order No. | 1252750000 | Klippon TB (Terminal Box), Document holders, Riveted, Height: 150 |
| GTIN (EAN) | 4050118045390 | mm, Width: 180 mm, Depth: 20 mm, Material: Stainless steel 1.4301, |
| Qty. | 1 pc(s). | Mirror polished, silver |

KTB FS 453820 S4E3

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Accessories

Type label holder



Integrate, expand and customise: The ideal expansion for every application

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Nameplate holders

There are a variety of designed label holders available for prominent display as required and for additional nameplates as needed.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | TPSDHA KTB 100X25 S2 2R | Version |
| Order No. | 1257640000 | Klippon TB (Terminal Box), Ratings plate holder, Riveted, Height: |
| GTIN (EAN) | 4050118070354 | 25 mm, Width: 141 mm, Depth: 16.5 mm, Material: Stainless steel |
| Qty. | 1 pc(s). | 1.4301, Mirror polished, silver |
| Type | TPSDHA KTB 130X50 S2 R | Version |
| Order No. | 1283450000 | Klippon TB (Terminal Box), Ratings plate holder, Riveted, Height: |
| GTIN (EAN) | 4050118073621 | 50 mm, Width: 171 mm, Depth: 16.5 mm, Material: Stainless steel |
| Qty. | 1 pc(s). | 1.4301, Mirror polished, silver |
| Type | TPSDHA KTB 70X70M3 S2 R | Version |
| Order No. | 1279320000 | Klippon TB (Terminal Box), Ratings plate holder, Riveted, Height: 70 |
| GTIN (EAN) | 4050118070101 | mm, Width: 70 mm, Depth: 20 mm, Material: Stainless steel 1.4301, |
| Qty. | 1 pc(s). | Mirror polished, silver |

Mounting plates



Mounting plates, with and without hole patterns, for longitudinal and transverse mounting of DIN mounting rails or components directly onto the mounting plate.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | GFSC M5X10 TX20 SET | Version |
| Order No. | 1274150000 | Klippon EB (Essential Box), Mounting screw, Height: 13.3 mm, Width: |
| GTIN (EAN) | 4050118063820 | 8.5 mm, Depth: 8.5 mm, Material: Steel, galvanized, galvanic zinc |
| Qty. | 1 pc(s). | plated and passivated, silver |

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Accessories

Installation material



Integrate, expand and customise - the perfect supplement to every application

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Mounting hardware kits

Mounting hardware kits are available for quick and easy installation of type label holders, document holders and rain hoods.

The **label fastening set – SD** is required to install a plastic (Trafolyte) ID or type label. With the aid of this set can you mount the ID or type label directly on the enclosure cover. The label fastening set has been specially developed for this purpose. Only by using this fastening set can you ensure that there will be no leaks into the enclosure or damage to the label.

The **universal fastening set – TPSD** has been developed to enable secure and quick installation of type label holders, rain covers or document holders, for example. By using this fastening set, the risk of leaks can be minimised, if not avoided.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | TPSD FIXING SET KTB | Version |
| Order No. | 1252190000 | Klippon TB (Terminal Box), Type plate fixings set, Material: Stainless |
| GTIN (EAN) | 4050118043969 | steel, rust-proof, untreated, silver |
| Qty. | 1 pc(s). | |
| Type | FKSC M6X8 D9/SW3 | Version |
| Order No. | 0642600000 | Klippon TB (Terminal Box), Mounting screw, Material: Steel |
| GTIN (EAN) | 4008190058258 | |
| Qty. | 50 pc(s). | |
| Type | SD FIXING SET | Version |
| Order No. | 1285200000 | Klippon TB (Terminal Box), Identification plate fixing set, Height: 12 |
| GTIN (EAN) | 4050118075472 | mm, Width: 12 mm, Depth: 16.4 mm, Material: Stainless steel, rust- |
| Qty. | 1 pc(s). | proof, untreated, silver |

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Accessories

Gland plates with earthing studs



Integrate, expand and customise: The ideal expansion for every application

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Flange plates

Flange plates in two thicknesses, for easy replacement of pre-assembl

General ordering data

| | | |
|------------|----------------------------|--|
| Type | KTB GP 453820 AB S4 PE | Version |
| Order No. | 2023510000 | Klippon TB (Terminal Box), flange plate, straight, Height: 372 mm, |
| GTIN (EAN) | 4050118403831 | Width: 167 mm, Depth: 3 mm, Gland plates: top, Bottom, Material: |
| Qty. | 1 pc(s). | Stainless steel 1.4404, electropolished, silver |
| Type | KTB GP 453820 CD S4 PE | Version |
| Order No. | 2023520000 | Klippon TB (Terminal Box), flange plate, straight, Height: 402 mm, |
| GTIN (EAN) | 4050118404210 | Width: 167 mm, Depth: 3 mm, Gland plates: left, right, Material: |
| Qty. | 1 pc(s). | Stainless steel 1.4404, electropolished, silver |

Stainless steel 1.4301



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Rain Covers

The rain cover provides an ideal, additional level of protection for the enclosure if it is installed in unusual climatic zones with, for instance, very heavy rainfall or extreme levels of direct sunlight.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | KTB RNHD 453820 R | Version |
| Order No. | 1281460000 | Klippon TB (Terminal Box), Rain hood, Height: 55.9 mm, Width: 387 |
| GTIN (EAN) | 4050118072228 | mm, Depth: 211.2 mm, Material: Stainless steel 1.4301, Mirror |
| Qty. | 1 pc(s). | polished, silver |

KTB FS 453820 S4E3

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Accessories

Earthing stud



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Earthing bolt

Earthing bolts to exchange as a complete component in two versions – brass and stainless steel.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | PEBZ M10 KTB S4 SET | Version |
| Order No. | 1192690000 | Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Height: |
| GTIN (EAN) | 4032248974658 | 21 mm, Width: 21 mm, Depth: 48.7 mm, Material: Stainless steel |
| Qty. | 1 pc(s). | 1.4404, untreated, silver |
| Type | PEBZ M10 KTB BR SET | Version |
| Order No. | 1192680000 | Klippon TB (Terminal Box), Earthing stud, Miscellaneous, Height: 21 |
| GTIN (EAN) | 4032248974641 | mm, Width: 21 mm, Depth: 48.7 mm, Material: Brass, untreated, silver |
| Qty. | 1 pc(s). | |

Grounding strap

The fully structured range of system accessories for the new Klippon® TB enclosure series allows you to easily adapt the enclosures to meet the specific requirements of every application. The following options are available:

- Closure Elements
- Document holders
- Earthing stud
- Gland plates
- Installation material
- Mounting plates
- Rain hoods
- Spacer
- Terminal rails
- Type label holder

General ordering data

| | | |
|------------|----------------------------|--|
| Type | PECD WIRE 6/200/D6 SET | Version |
| Order No. | 2475490000 | Klippon TB (Terminal Box), Grounding strap, Sscrewed, Material: Steel, |
| GTIN (EAN) | 4050118487206 | Green/yellow |
| Qty. | 1 pc(s). | |

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www.weidmueller.com**Accessories****Depth 15 mm****General ordering data**

| | | |
|------------|----------------------------|---|
| Type | TS35X15 ST KTB4538 VER | Version |
| Order No. | 8000073118 | Rail, TS 35, TS 35 x 15, Width: 403 mm, without slot, Steel, galvanic |
| GTIN (EAN) | 4064675340737 | zinc plated and passivated |
| Qty. | 20 pc(s). | |
| Type | TS35X15 ST KTB4538 HOR | Version |
| Order No. | 8000073117 | Rail, TS 35, TS 35 x 15, Width: 321 mm, without slot, Steel, galvanic |
| GTIN (EAN) | 4064675340720 | zinc plated and passivated |
| Qty. | 20 pc(s). | |