

KTB FS 221513 S4E1**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

EN 45545



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: 229 mm, Width: 152 mm, Depth: 133 mm, Gland plates: Bottom, Material: Stainless steel 1.4404 (316L), electropolished, silver
Order No.	1195660000
Type	KTB FS 221513 S4E1
GTIN (EAN)	4032248978403
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Depth	133 mm	Depth (inches)	5.236 inch
Height	229 mm	Height (inches)	9.016 inch
Width	152 mm	Width (inches)	5.984 inch
Mounting dimension - height	152 mm	Mounting dimension - width	178 mm
Net weight	3,754 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	8	M16	6
M20	3	M25	2
M32	2	M40	2
M50	0	M63	0
M75	0		

Cable glands, right

M12	8	M16	6
M20	3	M25	2
M32	2	M40	2
M50	0	M63	0
M75	0		

Cable glands, top/bottom

M12	6	M16	5
M20	2	M25	2
M32	1	M40	1
M50	0	M63	0
M75	0		

Certificate numbers enclosure

Approval conditions	ATEX, CCoE, DNV, IECEx, INMETRO, KC, NEPSI, CCC, UL AEx Class Div., UL AEx Class Zone, cULus	Attestation of Conformatiy No. (AoC)	
Certificate No. (ATEX)	KEMA10ATEX0044U	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)	IEX17.0021	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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General information

AF size	10 mm	Access opening: height	199 mm
Access opening: width		Areas of use	Explosive risk zone, Process industry, Oil and gas industry, Chemical industry, Offshore, Onshore
	122 mm		
Dimension of box		Enclosure attachment	4 welded-on mounting feet with 11 mm holes (2 slotted feet and 2 cross-shaped feet)
	350x390x220		
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		
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.
	14 kg		
Number of lid screws	4	Operating temperature, max.	135 °C
Operating temperature, min.	-60 °C	Overall dimensions	240 x 203 x 141.5
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
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horizontal assembly

WDU 10 / ZDU 10	1x7	WDU 16 / ZDU 16	1x6
WDU 2,5 / ZDU 2,5 / IDU 2,5	1x15	WDU 35 / ZDU 35	1x3
WDU 4 / ZDU 4	1x13	WDU 6 / ZDU 6	1x9

vertical assembly

WDU 10 / ZDU 10	1x13	WDU 16 / ZDU 16	1x11
WDU 2,5 / ZDU 2,5 / IDU 2,5	1x29	WDU 35 / ZDU 35	1x8
WDU 4 / ZDU 4	1x22	WDU 6 / ZDU 6	1x16

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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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www.weidmueller.com**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
Engineering Data	EU Declaration of Conformity - Klippon TB Empty Enclosures - DoC DE PS261X 160412 001ISS03
	DoM Railway applications - Fire protection on railway vehicles
Tender specification	CAD data – STEP
User Documentation	Klippon TB FS 221513 S4E1_1195660000_DE
	Klippon TB FS 221513 S4E1_1195660000_EN
Catalogues	Klippon TB FS 221513 S4E1_1195660000_NL
Brochures	Assembly guidelines - empty enclosures
	Catalogues in PDF-format
	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

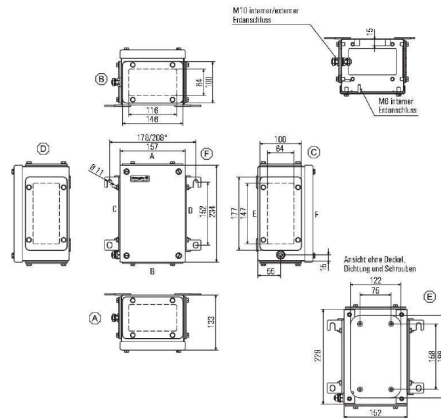
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Drawings

Dimensioned drawing



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Accessories

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).	

Gland plates made out of stainless steel - 6 mm



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 221513 AB S4 6MM	Version
Order No.	1256270000	Klippon TB (Terminal Box), flange plate, straight, Height: 146 mm,
GTIN (EAN)	4050118092592	Width: 100 mm, Depth: 6 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

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Accessories

Gland plates with earthing studs



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Flange plates

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

General ordering data

Type	KTB GP 221513 AB S4 PE	Version
Order No.	2022770000	Klippon TB (Terminal Box), flange plate, straight, Height: 146 mm,
GTIN (EAN)	4050118403916	Width: 100 mm, Depth: 3 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

Type label holder



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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 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

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www.weidmueller.com**Accessories****Depth 7.5 mm****General ordering data**

Type	TS35X7.5 ST KTB2215 HOR	Version
Order No.	8000006720	Rail, TS 35, TS 35 x 7.5, Width: 91 mm, without slot, Steel, galvanized, chromium-plated
GTIN (EAN)	4050118652888	
Qty.	20 pc(s).	
Type	TS35X7.5 ST KTB2215 VER	Version
Order No.	8000006708	Rail, TS 35, TS 35 x 7.5, Width: 174 mm, without slot, Steel, galvanized, chromium-plated
GTIN (EAN)	4050118652819	
Qty.	20 pc(s).	

Depth 15 mm**General ordering data**

Type	TS35X15 ST KTB2215 HOR	Version
Order No.	8000073108	Rail, TS 35, TS 35 x 15, Width: 91 mm, without slot, Steel, galvanic zinc plated and passivated
GTIN (EAN)	4064675340584	
Qty.	20 pc(s).	
Type	TS35X15 ST KTB2215 VER	Version
Order No.	8000073109	Rail, TS 35, TS 35 x 15, Width: 174 mm, without slot, Steel, galvanic zinc plated and passivated
GTIN (EAN)	4064675340591	
Qty.	20 pc(s).	

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Accessories

Stainless steel 1.4404 (316L)

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

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

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 221513 S4E R	Version
Order No.	1314090000	Klippon TB (Terminal Box), Rain hood, Height: 50.9 mm, Width: 157
GTIN (EAN)	4050118117332	mm, Depth: 142.8 mm, Material: Stainless steel 1.4404 (316L),
Qty.	1 pc(s).	electropolished, silver

Installation material**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.

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).	

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Accessories

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

Gland plates without 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 221513 AB S4	Version
Order No.	1280890000	Klippon TB (Terminal Box), flange plate, straight, Height: 146 mm,
GTIN (EAN)	4050118071627	Width: 100 mm, Depth: 3 mm, Gland plates: top, Bottom, Material:
Qty.	1 pc(s).	Stainless steel 1.4404, electropolished, silver

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 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).	
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

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Accessories

229 x 152mm



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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 2215 MSZN	Version
Order No.	1193930000	Klippon TB (Terminal Box), Mounting plate, Height: 174 mm, Width:
GTIN (EAN)	4050118028546	91 mm, Depth: 1.5 mm, Material: Sheet steel, galvanized, silver
Qty.	1 pc(s).	
Type	KTB MOPL 2215 MSZN H	Version
Order No.	2022050000	Klippon TB (Terminal Box), Mounting plate, prepunched, Height: 174
GTIN (EAN)	4050118403442	mm, Width: 91 mm, Depth: 1.5 mm, Material: Sheet steel, galvanized,
Qty.	1 pc(s).	silver
Type	KTB MOPL 2215 S2N	Version
Order No.	1193810000	Klippon TB (Terminal Box), Mounting plate, Height: 174 mm, Width:
GTIN (EAN)	4050118028409	91 mm, Depth: 1.5 mm, Material: Stainless steel 1.4301 (304),
Qty.	1 pc(s).	untreated, silver
Type	KTB MOPL 2215 S2N H	Version
Order No.	1257650000	Klippon TB (Terminal Box), Mounting plate, prepunched, Height: 174
GTIN (EAN)	4050118049305	mm, Width: 91 mm, Depth: 1.5 mm, Material: Stainless steel 1.4301
Qty.	1 pc(s).	(304), untreated, 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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www.weidmueller.com**Accessories****Stainless steel 1.4301****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 221513 R	Version
Order No.	1281360000	Klippon TB (Terminal Box), Rain hood, Height: 50.9 mm, Width: 157
GTIN (EAN)	4050118072075	mm, Depth: 142.8 mm, Material: Stainless steel 1.4301, Mirror
Qty.	1 pc(s).	polished, silver