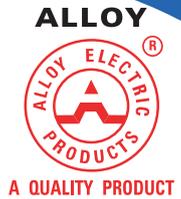


Enclosure: Terminal Box, TBE2 Series

Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Application

TBE2 terminal boxes are designed for tapping, splicing, or connecting conductors for control and instrumentation applications. They are suitable for use in explosive atmospheres, including Zones 1, 2, 21, and 22.

Specification

Housing material : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (Grey)
(optional offshore painting-acrylic polyurethane coating)

Sealing (O-ring) : Silicone -40°C to +175°C

Lid screws : Stainless steel, SS 304 (optional SS 316)

Technical Data

Hazardous Area Zones	Gas	Dust
Equipment Group/Category	II 2G	II 2D
Symbol of Protection	Ex eb IIC T6-T3 Gb	Ex tb IIIC T80°C- T195°C Db
Certificate	KDB 25 ATEX 0023X IECEx KDB 25.0008X	
Conformity to Standards	EN IEC 60079-0, EN IEC 60079-7, EN IEC 60079-31 IEC 60079-0, IEC 60079-7, IEC 60079-31	
Ambient Temperature	-40°C to +65°C	
Index of Protection	IP66	
Entry Threads	NPT or Metric threads	
Mounting	Wall mount	

Electrical Rating

Rated voltage : up to 690 V
Rated current : up to 61 A
(Depending on the type of terminal used.)

Option

please specify

- Terminal sizes and number of poles.



TBE2 1111



TBE2 1414



TBE2 1818

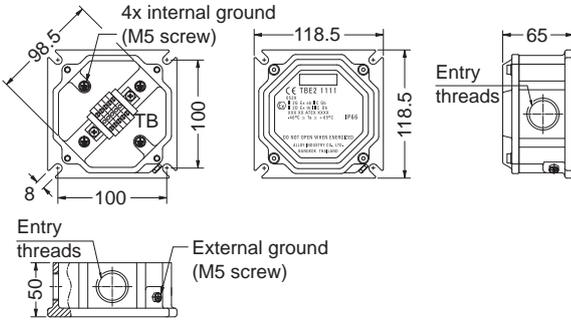
Ordering Requirements

Cat. No.	Ex e Terminal block					Maximum terminal block (poles)	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)		
	(The maximum current depends on the conductor cross-section. For maximum current data, please refer to the maximum number of terminals table in TBE2 series installation, operating and maintenance instruction, section 3)						Ta 40°C	Ta 65°C	Ta 40°C	Ta 65°C	
	Brand	Model	Order code	Wire size	Voltage						
TBE2 1111	ABB Entelec	DR4/6.Ex	1SNA146199R2200	0.5-4 mm ²	275 V	6	T5	T4	T95°C	T130°C	
	Phoenix Contact	MUT 4	3248035	0.5-4 mm ²	352 V		T6	T4	T80°C	T130°C	
	Wago	264-125	-	0.5-2.5 mm ²	550 V		T5	T4	T95°C	T130°C	
TBE2 1414	ABB Entelec	ZS4	1SNK505010R0000	0.5-4 mm ²	630 V	8	T5	T4	T95°C	T130°C	
		ZS6	1SNK506010R0000	0.5-6 mm ²			T4	T3	T130°C	T195°C	
	Phoenix Contact	UK 3N	3001501	0.5-2.5 mm ²	690 V	9	T6	T4	T80°C	T130°C	
		UK 5N	3004362	0.5-4 mm ²			8	T5	T4	T95°C	T130°C
		UK 6N	3004524	1.5-6 mm ²			7	T5	T4	T95°C	T130°C
	Wago	2002-1201	2002-1201	0.5-2.5 mm ²	550 V	9	T6	T5	T80°C	T95°C	
		2004-1201	2004-1201	0.5-4 mm ²			7	T5	T4	T95°C	T130°C
2006-1201		2006-1201	1.5-6 mm ²	6			T5	T4	T95°C	T130°C	
TBE2 1818	ABB Entelec	ZS4	1SNK505010R0000	0.5-4 mm ²	630 V	18	T6	T5	T80°C	T95°C	
		ZS6	1SNK506010R0000	0.5-6 mm ²			16	T5	T4	T95°C	T130°C
		ZS10	1SNK508010R0000	1.5-10 mm ²			10	T5	T4	T95°C	T130°C
		ZS16	1SNK510010R0000	1.5-16 mm ²			8	T5	T4	T95°C	T130°C
	Phoenix Contact	UK 3N	3001501	0.5-2.5 mm ²	690 V	20	T6	T5	T80°C	T95°C	
		UK 5N	3004362	0.5-4 mm ²			16	T5	T4	T95°C	T130°C
		UK 6N	3004524	1.5-6 mm ²			12	T4	T4	T130°C	T130°C
		UK 10N	3005073	1.5-10 mm ²			9	T5	T4	T95°C	T130°C
		UK 16N	3006043	4-16 mm ²			7	T5	T4	T95°C	T130°C
	Wago	2002-1201	2002-1201	0.5-2.5 mm ²	550 V	20	T6	T5	T80°C	T95°C	
		2004-1201	2004-1201	0.5-4 mm ²			16	T5	T4	T95°C	T130°C
2006-1201		2006-1201	1.5-6 mm ²	14			T5	T4	T95°C	T130°C	
2010-1201		2010-1201	1.5-10 mm ²	10			T5	T4	T95°C	T130°C	
2016-1201		2016-1201	1.5-16 mm ²	8			T5	T4	T95°C	T130°C	

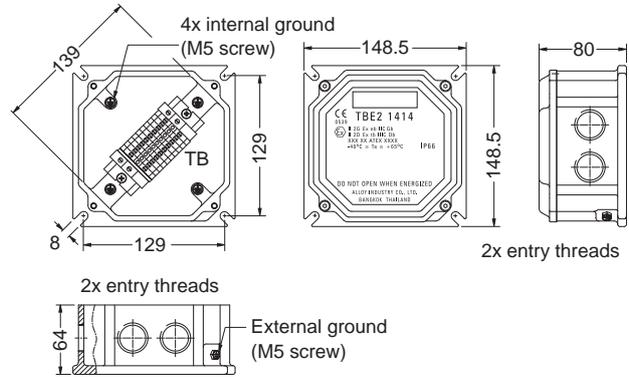
Remark * : The maximum surface temperatures are specified for dust free condition. The dust layer which may cover around the lighting fixture will cause higher surface temperature.

Dimensions (in mm)

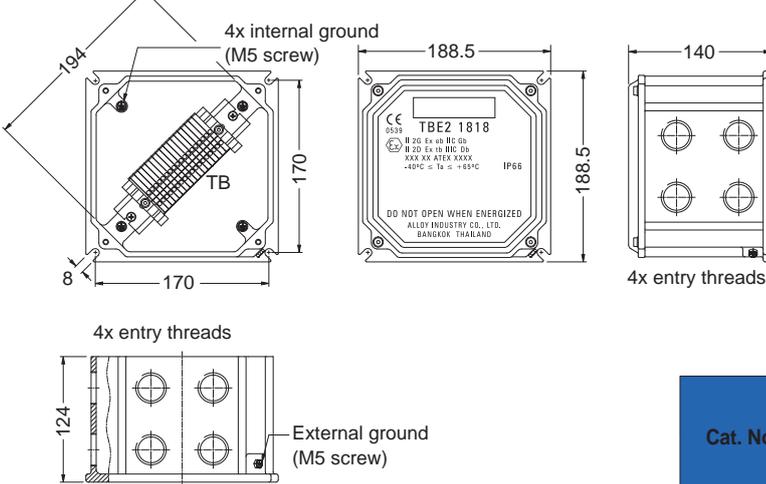
TBE2 1111



TBE2 1414



TBE2 1818

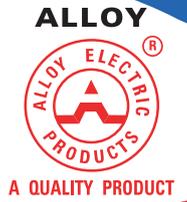


Cat. No.	Maximum entries thread size NPT (Metric)			Empty weight (kg)
	1/2" NPT (M20x1.5)	3/4" NPT (M25x1.5)	1" NPT (M32x1.5)	
TBE2 1111	1	1	-	0.8
TBE2 1414	2	2	1	1.2
TBE2 1818	4	4	4	2.6

Terminal Box Specification Sheet, Cat. No. TBE2 1111

Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

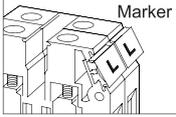


Project: _____ Date: _____
 Customer: _____ Owner: _____
 Contact person: _____
 Tel: _____ Fax: _____ E-mail: _____

Quantity (Set)	
----------------	--

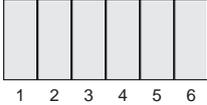
Terminal block (TB) specifications, Ex e type



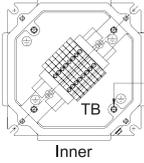


Marker

Terminal block arrangement



1 2 3 4 5 6



4- Internal ground (M5 screw)

Inner

Brand: **ABB ENTRELEC** (Certificate number LCIE 19 ATEX 3006U) *(Compression clamp terminal blocks)*

Rated cross section; 0.5-4.0 mm² wire size **Maximum terminal block; 6-poles (include PE)**

Model: DR4/6.Ex Q'ty _____ Poles Marker No. _____

Jumper Bar _____ Poles _____ Sets for Marker No. _____

Brand: **PHOENIX CONTACT** (Certificate number LCIE 08 ATEX 0007U) *(Compression clamp terminal blocks)*

Rated cross section; 0.5-4.0 mm² wire size **Maximum terminal block; 6-poles (include PE)**

Model: MUT 4 Q'ty _____ Poles Marker No. _____

Jumper Bar _____ Poles _____ Sets for Marker No. _____

Brand: **WAGO** (Certificate number PTB 98 ATEX 3129U) *(Case clamp spring terminal block)*

Rated cross section; 0.5-4.0 mm² wire size **Maximum terminal block; 5-poles**

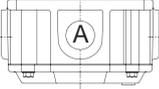
Model: 264-125 Q'ty _____ Poles Marker No. _____

Jumper Bar _____ Poles _____ Sets for Marker No. _____

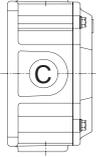
Note: _____

Entry threads

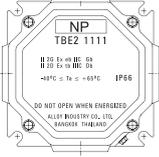
Maximum entries
3/4" NPT or M25x1.5



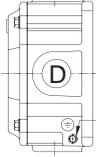
Top view



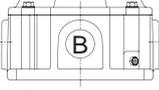
Left view



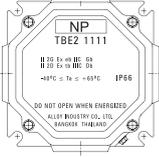
Front view



Right view



Bottom view



External ground

Top view **Bottom view**

1-hole (center)

A

B

Left view **Right view**

1-hole (center)

C

D

Nameplate (NP)

Letters

Material; Acrylic multipolymer (10 x 35mm.)
 Legend colour; Black letter, white background
 (Attach documents in case of more than one)





Terminal Box Specification Sheet, Cat. No. TBE2 1414

Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Project: _____ Date: _____
 Customer: _____ Owner: _____
 Contact person: _____
 Tel: _____ Fax: _____ E-mail: _____

Quantity (Set)	
----------------	--

Terminal block (TB) specifications, Ex e type

Brand: **ABB ENTRELEC** (Certificate number LCIE 08 ATEX 0007U) *(Compression clamp terminal blocks)*

Rated cross section; 0.5-4.0 mm² wire size **Maximum terminal block; 8-poles (include PE)**

Model: ZS4 Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Rated cross section; 0.5-6.0 mm² wire size **Maximum terminal block; 8-poles (include PE)**

Model: ZS6 Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Brand: **PHOENIX CONTACT** (Certificate number KEMA 98 ATEX1651U) *(Compression clamp terminal blocks)*

Rated cross section; 0.5-2.5 mm² wire size **Maximum terminal block; 9-poles (include PE)**

Model: UK 3N Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Rated cross section; 0.5-4.0 mm² wire size **Maximum terminal block; 8-poles (include PE)**

Model: UK 5N Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Rated cross section; 1.5-6.0 mm² wire size **Maximum terminal block; 7-poles (include PE)**

Model: UK 6N Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Brand: **WAGO** (Certificate number PTB 03 ATEX 1162U/ PTB 05 ATEX 1095U/ 1030U) *(Case clamp spring terminal block)*

Rated cross section; 0.5-2.5 mm² wire size **Maximum terminal block; 9-poles**

Model: 2002-1201 Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Rated cross section; 0.5-4.0 mm² wire size **Maximum terminal block; 7-poles**

Model: 2004-1201 Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Rated cross section; 1.5-6.0 mm² wire size **Maximum terminal block; 6-poles**

Model: 2006-1201 Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Entry threads

Top view

Front view

Right view

Left view

Bottom view

Maximum entries, 2-holes

A	B
C	D
E	F
G	H

3/4" NPT or M25x1.5

Maximum entries, 1-hole

I
J
K
L

1" NPT or M32x1.5

Top view

2-holes

A	
B	

1-hole (center)

I

Bottom view

2-holes

C	
D	

1-hole (center)

J

Left view

2-holes

E	
F	

1-hole (center)

K

Right view

2-holes

G	
H	

1-hole (center)

L

Nameplate (NP)

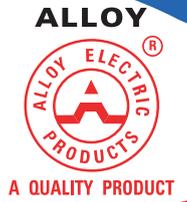
Letters	
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Material; Acrylic multipolymer (15 x 60mm.)
 Legend colour; Black letter, white background
(Attach documents in case of more than one)

Terminal Box Specification Sheet, Cat. No. TBE2 1818

Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Project: _____ Date: _____
 Customer: _____ Owner: _____
 Contact person: _____
 Tel: _____ Fax: _____ E-mail: _____

Quantity (Set)	
----------------	--

Terminal block (TB) specifications, Ex e type

Brand: **ABB ENTRELEC** (Compression clamp terminal blocks)

Model: _____ Q'ty _____ Poles _____ Marker No. _____
 Model: _____ Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Brand: **PHOENIX CONTACT** (Compression clamp terminal blocks)

Model: _____ Q'ty _____ Poles _____ Marker No. _____
 Model: _____ Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Brand: **WAGO** (Case clamp spring terminal block)

Model: _____ Q'ty _____ Poles _____ Marker No. _____
 Model: _____ Q'ty _____ Poles _____ Marker No. _____
 Jumper Bar _____ Poles _____ Sets for Marker No. _____

Entry threads

Maximum entries, 4-holes

A	B
C	E

3/4" NPT or M25x1.5

Top view

2-holes	3-holes
A1	E1
B1	F1
C1	G1
D1	

Bottom view

2-holes	3-holes
A2	E2
B2	F2
C2	G2
D2	

Maximum entries, 3-holes

E	G
F	

1" NPT or M32x1.5

Left view

2-holes	3-holes
A3	E3
B3	F3
C3	G3
D3	

Right view

2-holes	3-holes
A4	E4
B4	F4
C4	G4
D4	

Nameplate (NP)

Letters

Material: Acrylic multipolymer (20 x 80mm.) Legend colour: Black letter, white background (Attach documents in case of more than one)