

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	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	II 2G	II 2D
Symbol of Protection	Ex eb IIC T6-T3 Gb	Ex tb IIIC T80°C- T195°C Db
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

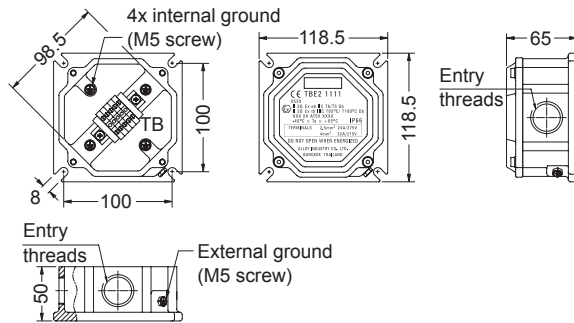
Ordering Requirements

Cat. No.	Ex e Terminal block (Pin Type)					Maximum terminal block (poles)	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)	
	Brand	Model	Wire size	Current	Voltage		Ta 40°C	Ta 65°C	Ta 40°C	Ta 65°C
TBE2 1111	ABB Entelec	DR4/6.Ex	0.5-4 mm ²	21 A	275 V	6	T5	T4	T95°C	T130°C
	Phoenix Contact	MUT 4	0.5-4 mm ²	22 A	352 V					
	Wago	264-125	0.5-2.5 mm ²	16 A	550 V	5	T6	T4	T80°C	T130°C
TBE2 1414	ABB Entelec	ZS4	0.5-4 mm ²	22 A	690 V	8	T5	T4	T95°C	T130°C
		ZS6	0.5-6 mm ²	31 A			T4	T3	T130°C	T195°C
	Phoenix Contact	UK 3N	0.5-2.5 mm ²	16 A		9	T6	T4	T80°C	T130°C
		UK 5N	0.5-4 mm ²	21 A		8				
		UK 6N	1.5-6 mm ²	33 A		7	T5	T4	T95°C	T130°C
	Wago	2002-1201	0.5-2.5 mm ²	15 A	550 V	9	T6	T5	T80°C	T95°C
		2004-1201	0.5-4 mm ²	21 A		7				
		2006-1201	1.5-6 mm ²	29 A		6	T5	T4	T95°C	T130°C
TBE2 1818	ABB Entelec	ZS4	0.5-4 mm ²	22 A	630 V	18	T6	T5	T80°C	T95°C
		ZS6	0.5-6 mm ²	33 A		16	T5	T4	T95°C	T130°C
		ZS10	1.5-10 mm ²	46 A		10				
		ZS16	1.5-16 mm ²	61 A		8				
	Phoenix Contact	UK 3N	0.5-2.5 mm ²	16 A	690 V	20	T6	T4	T80°C	T130°C
		UK 5N	0.5-4 mm ²	21 A		16				
		UK 6N	1.5-6 mm ²	33 A		12	T4	T4	T130°C	T130°C
		UK 10N	1.5-10 mm ²	46 A		9				
		UK 16N	4-16 mm ²	61 A		7				
	Wago	2002-1201	0.5-2.5 mm ²	15 A	550 V	20	T6	T5	T80°C	T95°C
		2004-1201	0.5-4 mm ²	21 A		16				
		2006-1201	1.5-6 mm ²	30 A		14	T5	T4	T95°C	T130°C
		2010-1201	1.5-10 mm ²	41 A		10				
		2016-1201	1.5-16 mm ²	56 A		8				

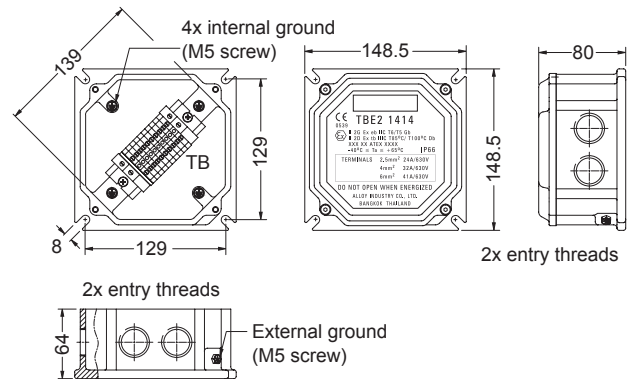
Remark * : The maximum surface temperatures are specified for dust free condition. The dust layer which may cover around the lighting fixture will cause higher surface temperature.

Dimensions (in mm)

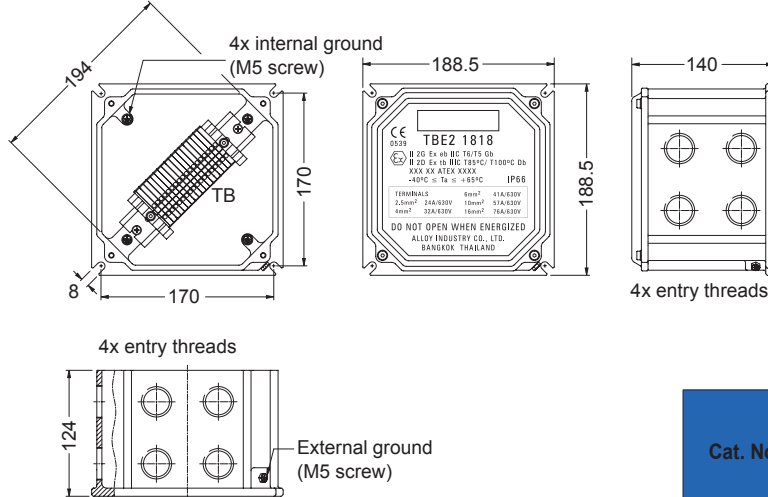
TBE2 1111



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	-	0.87
TBE2 1414	2	2	1	1.65
TBE2 1818	4	4	4	2.6

Terminal Box Specification Sheet, Cat. No. TBE2 1111

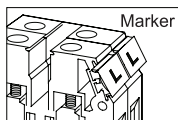
Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

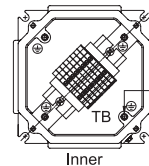
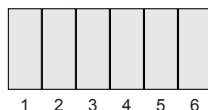


Project: _____		Date: _____		
Customer: _____		Owner: _____		
Contact person: _____		Quantity (Set) <table border="1"><tr><td> </td></tr></table>		
Tel: _____	Fax: _____	E-mail: _____		

Terminal block (TB) specifications, Ex e type



Terminal block arrangement



4- Internal ground (M5 screw)

☐ Brand: ABB ENTRELEC (Certificate number LCIE 02 ATEX 0017U)	(Compression clamp terminal blocks)
☐ Rated cross section; 0.5-4.0 mm ² wire size, 30 A, 275 V	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 mm ² wire size, 32 A, 352 V	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 mm ² wire size, 23 A, 550 V	Maximum terminal block; 5-poles
☐ Model: 264-125	Q'ty _____ Poles _____ Marker No. _____
☐ Jumper Bar	_____ Poles _____ Sets for Marker No. _____

Note: _____

Entry threads

 Top view		Maximum entries 3/4" NPT or M25x1.5	☐ Top view 1-hole (center) 	☐ Bottom view 1-hole (center) 	
 Left view	 Front view	 Right view	☐ Left view 1-hole (center) 	☐ Right view 1-hole (center) 	
 Bottom view			☐ Nameplate (NP) Letters <table border="1"><tr><td> </td></tr></table> Material; Acrylic multipolymer (10 x 35 mm) 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)	
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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, 32 A, 630 V** **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, 41 A, 630 V** **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, 23 A, 690 V** **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, 30 A, 690 V** **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, 41 A, 690 V** **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, 22 A, 550 V** **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, 30 A, 550 V** **Maximum terminal block; 7-poles**

☐ Model: 2004-1201 Q'ty _____ Poles _____ Marker No. _____

☐ Jumper Bar _____ Poles _____ Sets for Marker No. _____

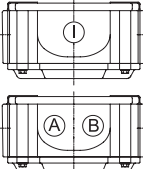
☐ **Rated cross section; 1.5-6.0 mm² wire size, 38 A, 550 V** **Maximum terminal block; 6-poles**

☐ Model: 2006-1201 Q'ty _____ Poles _____ Marker No. _____

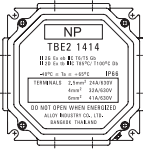
☐ Jumper Bar _____ Poles _____ Sets for Marker No. _____

Entry threads

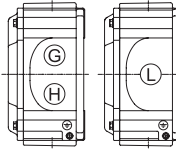




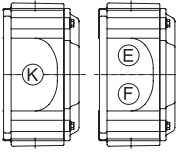
Top view



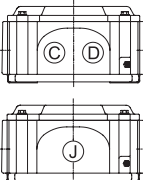
Front view



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 60 mm)
Legend colour; Black letter, white background
(Attach documents in case of more than one)

C8/27

Alloy Industry Co., Ltd.

Visit our website at www.alloyindustry.com
 or contact us at +66 (0) 2434 3688 © October 2025

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: _____			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Quantity (Set)</td> <td style="width: 50%;"></td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </table>		Quantity (Set)			
Quantity (Set)								
Tel: _____		Fax: _____		E-mail: _____				

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 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25px; text-align: center;">A</td> <td style="width: 25px; text-align: center;">B</td> </tr> <tr> <td style="width: 25px; text-align: center;">C</td> <td style="width: 25px; text-align: center;">E</td> </tr> </table> 3/4" NPT or M25x1.5		A	B	C	E	☐ Top view		☐ Bottom view					
A	B												
C	E												
		2-holes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 25px; text-align: center;">A1</td><td style="width: 25px; text-align: center;">B1</td></tr> <tr><td style="width: 25px; text-align: center;">C1</td><td style="width: 25px; text-align: center;">D1</td></tr> </table>		A1	B1	C1	D1	3-holes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 25px; text-align: center;">E1</td><td style="width: 25px; text-align: center;">F1</td></tr> <tr><td style="width: 25px; text-align: center;">G1</td><td style="width: 25px; text-align: center;">H1</td></tr> </table>		E1	F1	G1	H1
A1	B1												
C1	D1												
E1	F1												
G1	H1												
		2-holes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 25px; text-align: center;">A2</td><td style="width: 25px; text-align: center;">B2</td></tr> <tr><td style="width: 25px; text-align: center;">C2</td><td style="width: 25px; text-align: center;">D2</td></tr> </table>		A2	B2	C2	D2	3-holes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 25px; text-align: center;">E2</td><td style="width: 25px; text-align: center;">F2</td></tr> <tr><td style="width: 25px; text-align: center;">G2</td><td style="width: 25px; text-align: center;">H2</td></tr> </table>		E2	F2	G2	H2
A2	B2												
C2	D2												
E2	F2												
G2	H2												
		☐ Left view		2-holes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 25px; text-align: center;">A3</td><td style="width: 25px; text-align: center;">B3</td></tr> <tr><td style="width: 25px; text-align: center;">C3</td><td style="width: 25px; text-align: center;">D3</td></tr> </table>		A3	B3	C3	D3				
A3	B3												
C3	D3												
		3-holes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 25px; text-align: center;">E3</td><td style="width: 25px; text-align: center;">F3</td></tr> <tr><td style="width: 25px; text-align: center;">G3</td><td style="width: 25px; text-align: center;">H3</td></tr> </table>		E3	F3	G3	H3	☐ Right view					
E3	F3												
G3	H3												
Maximum entries, 3-holes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25px; text-align: center;">E</td> <td style="width: 25px; text-align: center;">F</td> </tr> <tr> <td style="width: 25px; text-align: center;">G</td> <td style="width: 25px; text-align: center;">H</td> </tr> </table> 1" NPT or M32x1.5		E	F	G	H			2-holes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 25px; text-align: center;">A4</td><td style="width: 25px; text-align: center;">B4</td></tr> <tr><td style="width: 25px; text-align: center;">C4</td><td style="width: 25px; text-align: center;">D4</td></tr> </table>		A4	B4	C4	D4
E	F												
G	H												
A4	B4												
C4	D4												
		3-holes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 25px; text-align: center;">E4</td><td style="width: 25px; text-align: center;">F4</td></tr> <tr><td style="width: 25px; text-align: center;">G4</td><td style="width: 25px; text-align: center;">H4</td></tr> </table>		E4	F4	G4	H4						
E4	F4												
G4	H4												
		☐ Nameplate (NP)		Letters									
Material; Acrylic multipolymer (20 x 80 mm) Legend colour; Black letter, white background (Attach documents in case of more than one)													