

Application

TBE1 terminal boxes are designed for tapping, splicing, or connecting conductors for control and instrumentation purposes. These boxes are suitable for use in explosive atmospheres in Zone 1, Zone 2, Zone 21, and Zone 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
Bolts : Stainless steel, SS 304
(optional SS 316)

Electrical Rating

Rated voltage : up to 630 V
Rated current : up to 41 A
(Depending on the type of terminal used.)

Option

please specify

- Terminal sizes and number of poles.

Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	II 2G	II 2D
Symbol of Protection	Ex e II T6/T5	Ex tD A21 IP66 T85°C/ T100°C
Certificate	PTB 04 ATEX 1090	
Conformity to Standards	EN IEC 60079-0, EN IEC 60079-7, EN IEC 60079-31	
Ambient Temperature	-20°C to +55°C	
Index of Protection	IP66	
Entry Threads	NPT or Metric threads	
Mounting	Wall mount	



TBE1 1111



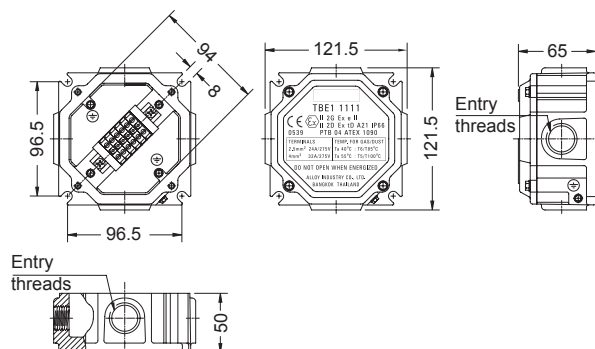
TBE1 1414

Ordering Requirements

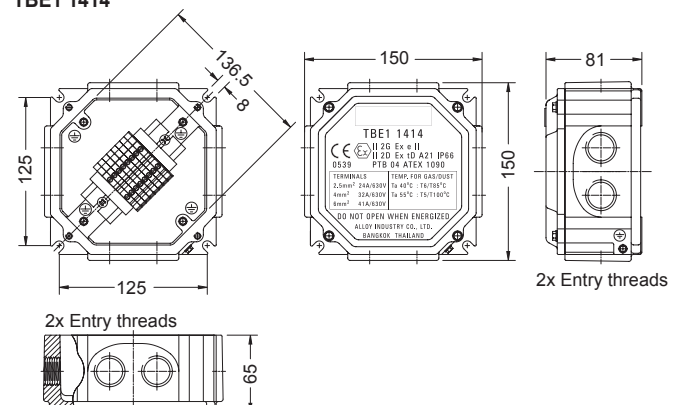
Cat. No.	Ex e Terminal block (Pin Type)					Maximum terminal block (poles)	Maximum entries thread size NPT (Metric)			Empty weight (kg)
	Brand	Model	Wire size	Current	Voltage		1/2" (M20x1.5)	3/4" (M25x1.5)	1" (M32x1.5)	
TBE1 1111	ABB Entelec	DR4/6.Ex	0.5-4 mm ²	30 A	275 V	6	1	1	-	0.87
	Phoenix Contact	MUT 4	0.5-4 mm ²	32 A	352 V	6	1	1	-	0.87
TBE1 1414	ABB Entelec	ZS4	0.5-4 mm ²	32 A	630 V	8	2	2	1	1.65
		ZS6	0.5-6 mm ²	41 A	630 V	8	2	2	1	1.65
	Phoenix Contact	UK 3 N	0.5-2.5 mm ²	23 A	630 V	9	2	2	1	1.65
		UK 5 N	0.5-4 mm ²	30 A	630 V	8	2	2	1	1.65
		UK 6 N	1.5-6 mm ²	41 A	630 V	7	2	2	1	1.65

Dimensions (in mm)

TBE1 1111



TBE1 1414



Terminal Box Specification Sheet, Cat. No. TBE1 1111 (Certificate number PTB 04 ATEX 1090)

Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Project: _____		Date: _____	
Customer: _____		Owner: _____	
Contact person: _____		Quantity (Set) _____	
Tel: _____		Fax: _____	
E-mail: _____			

Screw clamp terminal block (TB) specifications, Ex e type

4- Internal ground (M5 screw)

TB

Inner

Marker

Terminal block arrangement
Maximum terminal block;
6-poles (include PE)

1	2	3	4	5	6
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☐ Brand: **ABB ENTRELEC**

Certificate number LCIE 02 ATEX 0017U/ 0024U

Rated cross section 0.5-4.0 mm²

Rated current 30 A (IEC 947-7-1)

Maximum voltage 275 V (EN 60079-7)

☐ Model: DR4/6.Ex Q'ty _____ Poles _____

☐ Marker No. _____

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

☐ Model: DR4/6.P.Ex (Ground) Q'ty _____ Poles _____

☐ Marker No. _____

☐ Brand: **PHOENIX CONTACT**

Certificate number SEV 13 ATEX 0178U

Rated cross section 0.5-4.0 mm²

Rated current 32 A (IEC 947-7-1)

Maximum voltage 352 V (EN 60079-7)

☐ Model: MUT4 Q'ty _____ Poles _____

☐ Marker No. _____

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

☐ Model: MUT4-PE (Ground) Q'ty _____ Poles _____

☐ 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**

1-hole (center)

☐ **Left view**

1-hole (center)

☐ **Nameplate (NP)**

Letters _____

☐ **Bottom view**

1-hole (center)

☐ **Right view**

1-hole (center)

Material; Acrylic multipolymer (10 x 35 mm)
Legend colour; Black letter, white background
Maximum no. of letters; 8 letters
(Attach documents in case of more than one)

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Alloy Industry Co., Ltd.

C3/27



Terminal Box Specification Sheet, Cat. No. TBE1 1414 (Certificate number PTB 04 ATEX 1090)

Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Project: _____ Date: _____

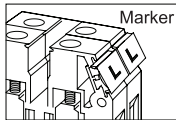
Customer: _____ Owner: _____

Contact person: _____

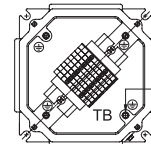
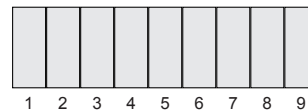
Tel: _____ Fax: _____ E-mail: _____

Quantity (Set)	
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Screw clamp terminal block (TB) specifications, Ex e type



Terminal block arrangement


☐ Brand: **ABB ENTRELEC** (Certificate number LCIE 08 ATEX 0007U)

☐ 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. _____
☐ Model: ZS4-PE (Ground) 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. _____
☐ Model: ZS6-PE (Ground) Q'ty _____ Poles _____ Marker No. _____
☐ Jumper Bar _____ Poles _____ Sets for Marker No. _____

☐ Brand: **PHOENIX CONTACT** (Certificate number KEMA 04 ATEX 2048U)

☐ Rated cross section; 0.5-2.5 mm² wire size, 23 A, 630 V

Maximum terminal block; 9-poles (include PE)

☐ Model: UK 3 N Q'ty _____ Poles _____ Marker No. _____
☐ Model: USLKG 3 (Ground) Q'ty _____ Poles _____ Marker No. _____
☐ Jumper Bar _____ Poles _____ Sets for Marker No. _____

☐ Rated cross section; 0.5-4.0 mm² wire size, 30 A, 630 V

Maximum terminal block; 8-poles (include PE)

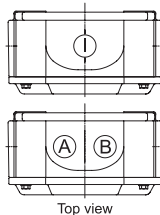
☐ Model: UK 5 N Q'ty _____ Poles _____ Marker No. _____
☐ Model: USLKG 5 (Ground) Q'ty _____ Poles _____ Marker No. _____
☐ Jumper Bar _____ Poles _____ Sets for Marker No. _____

☐ Rated cross section; 1.5-6.0 mm² wire size, 41 A, 630 V

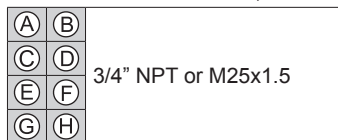
Maximum terminal block; 7-poles (include PE)

☐ Model: UK 6 N Q'ty _____ Poles _____ Marker No. _____
☐ Model: USLKG 6 N (Ground) Q'ty _____ Poles _____ Marker No. _____
☐ Jumper Bar _____ Poles _____ Sets for Marker No. _____

Entry threads



Maximum entries, 2-holes



3/4" NPT or M25x1.5

☐ Top view

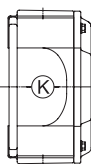
2-holes

(A)	
(B)	
1-hole (center)	
(I)	

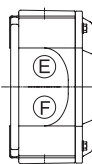
☐ Bottom view

2-holes

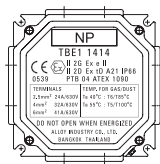
(C)	
(D)	
1-hole (center)	
(J)	



Left view



Front view



Right view



External ground

☐ Left view

2-holes

(E)	
(F)	
1-hole (center)	
(K)	

☐ Right view

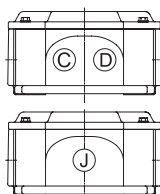
2-holes

(G)	
(H)	
1-hole (center)	
(L)	

☐ Nameplate (NP)

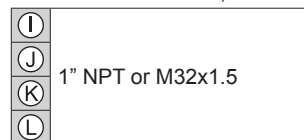
Letters

Material; Acrylic multipolymer (15 x 50 mm)
 Legend colour; Black letter, white background
 Maximum no. of letters; 12 letters
 (Attach documents in case of more than one)



Bottom view

Maximum entries, 1-hole



1" NPT or M32x1.5