

Application

The TBE1 terminal boxes are designed for taps, splices or connecting of conductors for control and instrument. These boxes are suitable for explosive atmospheres zone 1, 2 and zone 21, 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, SUS 304
 (optional SUS 316)

Electrical Rating

Rated voltage : up to 630V.
 Rated current : up to 41A.
 (depending on 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 No.	PTB 04 ATEX 1090	
Conformity to Standards	EN 60079-0:2006, EN 60079-7:2007, EN 61241-0:2006, EN 61241-1:2004	
Ambient Temperature	-20°C to +55°C	
Index of Protection	IP66	
Entries	NPT or Metric threads	
Mounting	Wall mount	



TBE1 1111



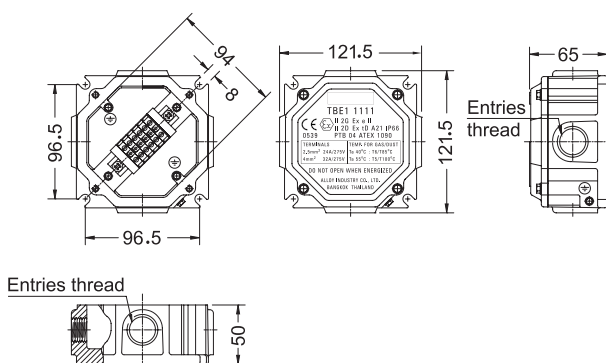
TBE1 1414

Ordering Requirements

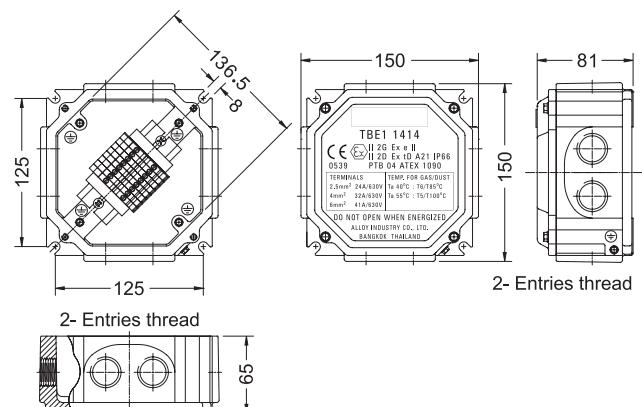
Cat. No.	Terminal Block, Ex e (Pin type)					Maximum Terminal Block (Poles)	Maximum entries thread size NPT (Metric)			Empty Weight (kgs.)	
	Brand	Model	Wire Size	Current	Voltage		1/2" (M20x1.5)	3/4" (M25x1.5)	1" (M32x1.5)		
TBE1 1111	ABB Entelec	DR4/6.Ex	0.5-4mm. ²	30A.	275V.	6	1	1	-	0.87	
	Phoenix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

Dimension

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: _____
 Tel: _____ Fax: _____ E-mail: _____

Quantity (Set)	
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Screw Clamp Terminal Block (TB) Specifications, Ex e type

Inner

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

Brand: **ABB ENTRELEC**

Certificate number LCIE 02 ATEX 0017U/ 0024U

Rated cross section 0.5-4.0 mm.²

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

Maximum voltage 275V. (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 mm.²

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

Maximum voltage 352V. (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: _____

Entries Threads

Top view

Left view

Front view

Right view

Bottom view

Maximum entries
3/4" NPT or M25x1.5

Top view
1-hole (center)
(A) _____

Bottom view
1-hole (center)
(B) _____

Left view
1-hole (center)
(C) _____

Right view
1-hole (center)
(D) _____

Nameplate (NP)
Letters _____

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



Terminal Box Specification Sheet, Cat. No. TBE11414 (Certificate number PTB 04 ATEX 1090)

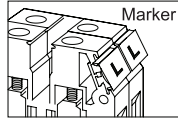
Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

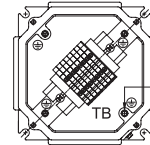
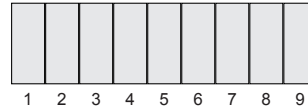
Project: _____ Date: _____
 Customer: _____ Owner: _____
 Contact person: _____
 Tel: _____ Fax: _____ E-mail: _____

Quantity (Set)	
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Screw Clamp Terminal Block (TB) Specifications, Ex e type



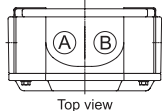
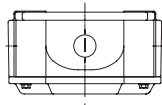
Terminal block arrangement



4- Internal ground (M5 screw)

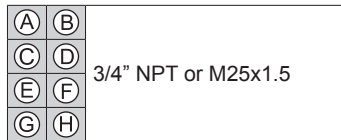
- Brand: **ABB ENTRELEC** (Certificate number LCIE 08 ATEX 0007U)
- Rated cross section; 0.5-4.0 mm.² wire size, 32A. 630V.** **Maximum terminal block; 8-poles (include PE)**
- Model: ZS4 Q'ty _____ Poles _____ Marker No. _____
- Model: ZS4-PE (Ground) Q'ty _____ Poles _____ Marker No. _____
- Jumper Bar _____ Poles _____ Sets for Marker No. _____
- Rated cross section; 0.5-6.0 mm.² wire size, 41A. 630V.** **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 mm.² wire size, 23A. 630V.** **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 mm.² wire size, 30A. 630V.** **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 mm.² wire size, 41A. 630V.** **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. _____

Entries Threads



Top view

Maximum entries, 2-holes



3/4" NPT or M25x1.5

Top view

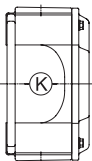
2-holes

(A)	_____
(B)	_____
(I)	_____

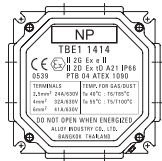
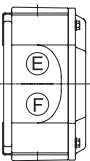
Bottom view

2-holes

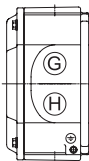
(C)	_____
(D)	_____
(J)	_____



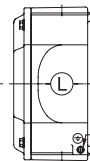
Left view



Front view



Right view



External ground

Left view

2-holes

(E)	_____
(F)	_____
(K)	_____

Right view

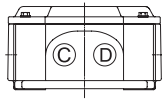
2-holes

(G)	_____
(H)	_____
(L)	_____

Nameplate (NP)

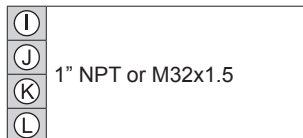
Letters

Material; Acrylic multipolymer (15 x 50mm.)
 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