

Intertek



1. EC-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective System Intended for use in Potentially

Explosive Atmospheres Directive 94/9/EC

EC-Type Examination Certificate

17-12-11-11-181698-1500-9

Equipment or protective system: - Firm: Proof Terminal Box Enclosures - TBE Series (Rose Brand)

Manufacturer: - Rose Systemtechnik GmbH

Erbeweg 13-15
32457 Porta Westfalica, Germany

Equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC

For this certificate, the equipment or protective system has been examined in accordance with the essential health and safety requirements relating to the design and construction of the equipment or protective system intended for use in potentially explosive atmospheres given in Annex I to the Directive.

The examination assesses results of compliance with standards

EN 60079-0:2012, EN 60079-1:2014 and EN 60079-31:2014

EN 60079-0:2012, EN 60079-1:2014 and EN 60079-31:2014

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EN 60079-0:2012, EN 60079-1:2014 and EN 60079-31:2014

Signature

Officer

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977

Signature
V.K. Yarnie
Certification Officer

10th April 2016

and without any change to the schedule included and is subject to Intertek Testing and Certification Conditions for Granting Certification

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Sheet 1 of 1



13. Description of Equipment or Protective System

The apparatus is a Threaded Flameproof Terminal Box Enclosure - EBT Series (Rose-Brand) made of aluminium alloy EN AC AlSi12(a) (EN AC 44200) as per EN 1706 or alternate suitable material of 303 304 or 316L or Cast Iron. The enclosure is provided with threaded lid and moulded O-ring of Silicon (-60°C ≤ ta ≤ +60°C) or NBR (-20°C ≤ ta ≤ +60°C) provided between enclosure base and lid for ingress protection IP66 in

14. Permissible Terminal Ratings

Terminal Type	M25 or 3/8" NPT	M32 or 1" NPT	M40 or 1 1/4" NPT	Terminal Type	Terminal No.
M25 or 3/8" NPT	4	X	X	TBE 100T	TB: 100
M32 or 1" NPT				TBE 130T	
M40 or 1 1/4" NPT				TBE 160T	

Type No.	Size	Permissible Terminals (mm ²)			
		2.5	4	6	10
TBE 100T	Rating (A)	20	26	30	40
	No. of terminals	08	06	04	03
TBE 130T	Power Dissipated (W)	2.2	2.0	1.4	1.2
	No. of terminals	16	10	06	06
TBE 160T	Power Dissipated (W)	1.2	1.0	0.7	0.6
	No. of terminals	24	16	10	06

Type No.	TBE 100T	TBE 130T	TBE 160T
Permissible wattage of component for Term Class	12 W	15 W	24 W
T6 @ ambient temperature 60°C			

14. Report Number

Intertek India Report Reference No. CE-JOB-DEI-16-000001-009 to 012 and intertek Certificate No. IC3400871 dated March 2016.

Intertek Certification Report No. G1119424

Intertek India Report reference No. CE-JOB-DEI-16-000001-009 to 012 dated February 2015.

Intertek Testing & Certification Limited
 Intertek House, Gleeve Road, Leatherhead, Surrey, KT22 7SB
 Tel: + 44 (0)1372 370900—Fax: +44 (0)1372 370977
www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ



SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS14ATFX18169X Issued

Conditions of Certification

(a) Special conditions for safe use

...plating elements and thread
...ings to be used to connect wiring or
... from flameproof enclosure of 40mm to be
...adapter. A plating element shall not be used
...only

1. Suitably rated and certified Ex d IIC Group IP66 cable glands, cable
adapters to be used
2. Suitably rated and certified Ex d II Group IP66 bush
enclosures, and minimum distance of obstruction
maintained
3. Each entry shall have no more than one thread and
with thread adapter
4. Enclosures are to be installed in vertical position

(b) Conditions of Manufacture

...2014 Clause 9.2 shall be carried out by
...lar structure of 30mm flameproof cast iron enclosure
... shall be observed to satisfaction of all permitted
... protection observed in points 6.2. If no plate have been
... through the walls of the enclosure observed

A routine overpressure test to standard EN 60079-1
... TB Series at a pressure of 2 bar
... must be carried out on all enclosures
... shall be observed to satisfaction of all permitted
... protection observed in points 6.2. If no plate have been
... through the walls of the enclosure observed

Essential Health and Safety Instructions (EHSI) are:

The relevant EHSI shall have been identified and assessed in Intertek Report No. CE-105-DE-104
000469-002 to 004878 Intertek UK Project ID 101942474 dated February 2015

Drawings and documents

Rev.	Date	Sheet
01	22.09.2014	1 of 8
02	22.09.2014	2 of 8
03	22.09.2014	3 of 8
04	22.09.2014	4 of 8
05	22.09.2014	5 of 8
06	22.09.2014	6 of 8
07	22.09.2014	7 of 8
08	22.09.2014	8 of 8

Drawing No.
EX-PM-TBE-2014-01
EX-PM-TBE-2014-02
EX-PM-TBE-2014-03
EX-PM-TBE-2014-04
EX-PM-TBE-2014-05
EX-PM-TBE-2014-06
EX-PM-TBE-2014-07
EX-PM-TBE-2014-08

Intertek
Leatherhead, KT22 7SE
Tel: +44 (0)1372 370977

Intertek Testing & Certification Limited
Intertek House, Gleeve Road, Leatherhead, Surrey
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370901
www.intertek.com

... is subject to Intertek Testing and Certification's Conditions

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SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER IS 4ATBX18169X Issue 1

18. Revisi

Issue 1 Certificate No. 4ATBX18169X Issue 1, 18-10-10
No. G402499875 dated March 2010

To Permit the following Changes:

to Rose Systemtechnik GmbH

1. Change of Certificate Holder from Inconix Mecano (India) Pvt. Ltd.

enclosures TBE Series for Dust as per EN 60079-

2. Re-assessment of the Threaded Flameproof Terminal Box Enclosures TBE Series

enclosures TBE Series to the additional ambient temperature

3. Re-assessment of the Threaded Flameproof Terminal Box Enclosures TBE Series to the additional ambient temperature +40°C to +55°C leading to a new

Table 10 (1) to 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

Table 2 to 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

T Class [1]	TG	TG	TG	TG	Min-Ambient Temperature
Dust Temp Marking [2]	T80°C	T95°C	T80°C	T95°C	[3]
Max-Ambient Temp [4]	+40°C	+55°C	+60°C	+75°C	

TYPE NO. 5

Conditions of Manufacture

A routine overpressure test in accordance with EN 60079-1:2014 Clause 15.2.3 shall be carried out by the manufacturer on each Flameproof Terminal Box enclosure TBE Series at a pressure of 0.41 bar / 150.98 PSI for ambient +20°C or 0.77 bar / 246.56 PSI for ambient +60°C

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Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SE

Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977

www.intertek.com

No 327228 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ

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This Certificate is

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SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS14ATEX18169X Issue 1

Title	Drawing No.:	Rev.	Date:	Sheet
TERMINAL BOX ENCLOSURE -TBE SERIES	EX.PMI.TBE.201	1	29.10.2015	1 of 8
TERMINAL BOX ENCLOSURE -TBE SERIES	EX.PMI.TBE.201	1	29.10.2015	2 of 8
TBE 100T LID (MACHINED CASTING)	EX.PMI.TBE.201	1	29.10.2015	3 of 8
TBE 130T LID (MACHINED CASTING)	EX.PMI.TBE.201	1	29.10.2015	4 of 8
TBE 130T LID (MACHINED CASTING)	EX.PMI.TBE.201	1	29.10.2015	5 of 8
TBE 130T BASE (MACHINED CASTING)	EX.PMI.TBE.201	1	29.10.2015	6 of 8
TBE 160T LID (MACHINED CASTING)	EX.PMI.TBE.201	1	29.10.2015	7 of 8
TBE 160T BASE (MACHINED CASTING)	EX.PMI.TBE.201	1	29.10.2015	8 of 8

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Intertek (UK) Limited
 13 Brook Street, Broomfield, Essex, CM10 5NC
 Tel: +44 (0)1372 575977

Intertek Testing & Certification Limited
 Intertek House, Searcy Road, Broomfield
 Essex, CM10 5NC
 Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370901
 www.intertek.com

Registered No 327828 Registered Office: Academy Way, Broomfield, Essex, CM10 5NC

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