



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 11ATEX3142U** Issue: **9**

4 Component: **iTB and iSTB Enclosures**

5 Applicant: **Index Enclosures Ltd**

6 Address: **Montpelier Business Park
Leacon Road
Ashford
Kent TN23 4FG
UK**

7 This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012

EN 60079-7:2007

EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:



II 2 G D
Ex e IIC Gb
Ex tb IIIC Db
IP66

P J Walsh
Technical Advisor

Project Number 70045000

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Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom



SCHEDULE

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13 DESCRIPTION OF COMPONENT

iTB Range

The enclosures in the iTB range are fabricated from painted mild steel or stainless steel and consist of a body and hinged lid complete with silicone gaskets. They have been tested and meet an ingress protection level of at least IP66 and are available in sizes ranging from 230 x 150 x 130 mm to 1200 x 1000 x 300 mm. The body may be supplied with gland plates on up to four side faces and the lid is secured to the body by two, three or four hinges and from two to five, M6 screws, depending on the size of enclosure. There are studs inside the enclosures for the subsequent mounting of components and internal, M6, earth studs are provided on the lid, in addition, there is an internal/external, M10, earth stud in the main enclosure body.

iSTB Range

The enclosures in the STB range are fabricated from painted mild steel or stainless steel and consist of a body and bolted cover complete with silicone gaskets. They have been tested and meet an ingress protection level of at least IP66 and are available in sizes ranging from 100 x 100 x 60 mm to 600 x 600 x 300 mm. The body may be supplied with gland plates on up to four side faces and the cover is secured to the body by four, M6 screws. There are studs inside the enclosures for the subsequent mounting of components and internal M6 earth studs are provided on the lid, in addition there is an internal/ external M6 earth stud in the main enclosure body.

Variation 1 - This variation introduced the following changes:

- i. The introduction of an alternative seal material from a different supplier.
- ii. The marking labels were modified to recognise non-technical changes.
- iii. To allow the use of a M6 the earth stud on the iSTB enclosure.

Variation 2 - This variation introduced the following change:

- i. The recognition of minor drawing modifications; the addition of detail and clarity to the body hinge design, the addition of bending profiles, change to the layout to reflect new index styles these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety

Variation 3 - This variation introduced the following change:

- i. The recognition of minor drawing modifications to reflect the IECEx certification of the iTB and iSTB enclosures, these modifications do not affect the explosion proof properties of the enclosures.

Variation 4 - This variation introduced the following changes:

- i. The introduction of an alternative hinged cover.
- ii. The lower ambient temperature was approved to be lowered to -50°C resulting in the Special Condition for Safe Use being amended.

Variation 5 - This variation introduced the following changes:

- i. The introduction of a new enclosure to each of the iTB and iSTB ranges; these enclosures are larger than those originally certified, the dimensions being 2000 x 1200 x 800 mm.

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Variation 6 - This variation introduced the following changes:

- i. The option of using a quarter turn lock on the iTB enclosures as an alternative to M6 fasteners was approved.
- ii. A new Special Condition For safe Use was introduced.

Variation 7 - This variation introduced the following changes:

- i. A double door option that closes onto a centre bar was introduced to the iTB Range. The double door option has an increased enclosure width 2000 mm (1000 mm per door).

Variation 8 - This variation introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2009 and EN 60079-31:2009 were replaced by EN 60079-0:2012 and EN 60079-31:2014.

Variation 9 - This variation introduced the following changes:

- i. The introduction of an additional door to the rear of the existing single door iTB enclosures.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	21 September 2011	R24553A/00	The release of the prime certificate.
1	27 October 2011	R26005A/00	The introduction of Variation 1.
2	26 April 2012	R27749A/00	The introduction of Variation 2.
3	12 October 2012	R28019A/00	The introduction of Variation 3.
4	17 October 2012	R28337A/00	The introduction of Variation 4.
5	24 January 2013	R29471A/00	The introduction of Variation 5.
6	19 March 2014	R32162A/00	The introduction of Variation 6.
7	13 March 2015	R70019312A	The introduction of Variation 7.
8	03 June 2015	R70012708A	The introduction of Variation 8.
9	23 September 2015	R70045000A	The introduction of Variation 9.

15 SPECIAL CONDITIONS FOR SAFE USE

15.1 The service temperature range of -50°C to +135°C shall not be exceeded.

15.2 When Fitted with quarter turn locks the service temperature range of -40°C to +135°C shall not be exceeded.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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Certificate Annexe



Certificate Number: Sira 11ATEX3142U
Component: iTB and iSTB Enclosures
Applicant: Index Enclosures Ltd

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
IEL00001	1 of 1	2	03 May 11	iTB enclosure general assembly
IEL00002	1 of 1	3	03 May 11	iSTB enclosure general assembly
IEL00003	1 of 1	1	03 May 11	iTB label
IEL00004	1 of 1	1	03 May 11	iSTB label

Issue 1

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
IEL00001	1 of 1	3	20 Sep 11	iTB enclosure general assembly
IEL00002	1 of 1	4	20 Sep 11	iSTB enclosure general assembly
IEL00003	1 of 1	3	19 Oct 11	iTB label
IEL00004	1 of 1	3	19 Oct 11	iSTB label

Issue 2

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
IEL00001	1 of 1	4	25 Apr 12	iTB enclosure general assembly
IEL00002	1 of 1	5	25 Apr 12	iSTB bolted enclosure general assembly

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
iEL00001	1 of 1	4	25 Jun 12	iTB bolted enclosure range composite approval general arrangement
iEL00002	1 of 1	5	25 Jun 12	iSTB bolted enclosure composite approval general arrangement
iEL00003	1 of 1	4	10 Oct 12	iTB range component label
iEL00004	1 of 1	4	10 Oct 12	iSTB range component label

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
iEL00021	1 of 1	0	16 Jul 12	iTB enclosure range hinge comparison

Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
iEL00001	1 of 1	5	03 Dec 12	iTB enclosure range composite approval general arrangement
iEL00002	1 of 1	6	03 Dec 12	iSTB bolted enclosure composite approval general arrangement

Issue 6

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
iEL00024	1 of 1	0	06 Jan 14	iTB Enclosure Range Quarter Turn Lock General Arrangement
iEL00025	1 of 1	0	10 Feb 14	Quarter Turn Lock

Issue 7

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
iEL00027	1 of 1	1	26 Feb 15	iTB Double Door Cabinet Centre Bar Design

Issue 8: (No new drawings were introduced)

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Certificate Number: Sira 11ATEX3142U
Component: iTB and iSTB Enclosures
Applicant: Index Enclosures Ltd

Issue 9

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
iEL00028	1 of 1	1	14 Sep 15	General arrangement of iTB enclosures with front and rear doors

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