



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 09ATEX1277U** Issue: **3**

4 Component: **7117 **and 8117 ** Ranges of Enclosures**

5 Applicant: **International Metal Engineering Pte Limited**

6 Address: **Blk 13
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06-05 Braddell Tech Park
Singapore
319261**

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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+A11:2013 EN 60079-1:2014 EN 60079-31:2014

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 limitations of use are listed in the schedule to this certificate.

11 This EU-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 db IIC Gb
Ex tb IIIC Db IP68

Project Number 80054441

Signed: J A May

Title: Director of Operations

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
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SCHEDULE

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13 DESCRIPTION OF COMPONENT

7117 **

The 7117 ** series junction box, which has a maximum internal volume of 780 cm³, are cylindrical, single compartment enclosures comprising a base and cover. The enclosures are manufactured from stainless steel or cast aluminium with an optional epoxy paint finish. The enclosure covers may contain a circular tempered glass window. Each 7117 enclosure may have up to four conduit openings. with entry sizes selected from ½" NPT, ¾" NPT, 1" NPT, M20 x 1.5 or M25 x 1.5.

| Ref. | Material | Option | Ref. | Material | Option | Ref. | Material | Option |
|---------|-----------------|--------------|---------|-------------------------|--------------|---------|--------------------------|--------------|
| 7117 ST | Stainless steel | Window cover | 7117 WT | Aluminium, epoxy coated | Window cover | 7117 CT | Aluminium, cast finished | Window cover |
| 7117 SM | Stainless steel | Window cover | 7117 WM | Aluminium, epoxy coated | Window cover | 7117 CM | Aluminium, cast finished | Window cover |
| 7117 TT | Stainless steel | Blind cover | 7117 AT | Aluminium, epoxy coated | Blind cover | 7117 NT | Aluminium, cast finished | Blind cover |
| 7117 TM | Stainless steel | Blind cover | 7117 AM | Aluminium, epoxy coated | Blind cover | 7117 NM | Aluminium, cast finished | Blind cover |

8117 **

The 8117 ** series instrument enclosure, which has a maximum internal volume of 990 cm³, are cylindrical single compartment enclosures comprising a base and cover. The enclosures are manufactured from stainless steel or cast aluminium with an epoxy paint finish. The enclosure covers may contain a circular tempered glass window. Each 8117 enclosure may have up to three conduit openings with entry sizes selected from ½" NPT, ¾" NPT, 1" NPT, M20 x 1.5 or M25 x 1.5.

| Ref. | Material | Option | Ref. | Material | Option |
|---------|-----------------|--------------|---------|--------------------------|--------------|
| 8117 ST | Stainless steel | Window cover | 8117 WT | Aluminium, epoxy coated | Window cover |
| 8117 SM | Stainless steel | Window cover | 8117 WM | Aluminium, epoxy coated | Window cover |
| 8117 TT | Stainless steel | Blind cover | 8117 AT | Aluminium, epoxy coated | Blind cover |
| 8117 TM | Stainless steel | Blind cover | 8117 AM | Aluminium, cast finished | Blind cover |

Variation 1 - This variation introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2009, EN 60079-1:2007 and IEC 60079-31:2008 Ed.1 were replaced by EN 60079-0:2012+A11:2013, EN 60079-1:2014 and EN 60079-31:2014, the markings were updated accordingly to recognise the new standards, and a Schedule of Limitations was added.
- ii. Other external thread types (other than metric or NPT) are not permitted as an option for cable glands in field wiring installations in EN 60079-1:2014 Annex C.2.2, therefore a specific condition of use is added to this certificate.

Variation 2 - This variation introduced the following changes:

- i. Remove all references to BSP thread types in the certificate product description and drawings, in relation to cable entry options, resulting in the removal of two Schedule of Limitations in the certificate.
- ii. Replace current external label with an internal label.



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iii. Correction of a typographical error in the "Assessment Standards" section from EN 60079-0:2012+A1:2013 to EN 60079-0:2012+A11:2013.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

| Issue | Date | Report number | Comment |
|-------|-----------------|---------------|---|
| 0 | 22 Jun 2010 | R19866A/00 | The release of the prime certificate. |
| 1 | 06 March 2018 | R70133545A | This Issue covers the following changes: <ul style="list-style-type: none">• EC-Type Examination Certificate in accordance with 94/9/EC updated to EU-Type Examination Certificate in accordance with Directive 2014/34/EU. (In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC-Type Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)• The introduction of Variation 1. |
| 2 | 15 October 2019 | 0566 | Transfer of certificate Sira 09ATEX1277U from Sira Certification Service to CSA Group Netherlands B.V.. |
| 3 | 31 March 2021 | R80054441A | This Issue covers the following changes: <ul style="list-style-type: none">• The introduction of Variation 2.• A standard referenced in the text of Variation 1 i was amended to correct a typographical error. |

15 SCHEDULE OF LIMITATIONS

15.1 These component enclosures shall only be used within the temperature range of -40°C to +85°C.

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.