



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SIR 10.0091X**

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Certificate history:

Status: **Current**

Issue No: 2

[Issue 1 \(2012-12-10\)](#)

[Issue 0 \(2010-08-05\)](#)

Date of Issue: 2026-04-21

Applicant: **International Metal Engineering Pte Ltd**
Blk 13
Toa Payoh Lorong 8
06-05 Braddell Tech Park
Singapore
319261
Singapore

Equipment: **5117 Range of Junction Boxes**

Optional accessory:

Type of Protection: **Flameproof 'd', Intrinsic Safety 't'**

Marking: Ex db IIC T6 Gb
Ex tb IIIC T85°C Db IP68
Ta = -40 °C to +75 °C

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Senior Director of Operations

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Manufacturer: **International Metal Engineering Pte Ltd**
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Toa Payoh Lorong 8
06-05 Braddell Tech Park
Singapore
319261
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Manufacturing
locations: **International Metal Engineering Pte
Ltd**
Blk 13
Toa Payoh Lorong 8
06-05 Braddell Tech Park
Singapore
319261
Singapore

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/SIR/ExTR10.0155/00](#)

[GB/SIR/ExTR12.0270/00](#)

[GB/SIR/ExTR26.0037/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0040/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 5117 range of Junction Boxes utilise the 7117 series of empty enclosures, certificate number IECEx SIR 09.0118U populated with up to 12 Phoenix Contact UK3N terminals, each Junction Box 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. The range is defined below:

Reference	Material of construction	Option
5117 ST	Stainless steel	Window cover
5117 SM	Stainless steel	Window cover
5117 TT	Stainless steel	Blind cover
5117 TM	Stainless steel	Blind cover
5117 WT	Aluminium, epoxy coated	Window cover
5117 WM	Aluminium, epoxy coated	Window cover
5117 AT	Aluminium, epoxy coated	Blind cover
5117 AM	Aluminium, epoxy coated	Blind cover
5117 CT	Aluminium, casting finish	Window cover
5117 CM	Aluminium, casting finish	Window cover
5117 NT	Aluminium, casting finish	Blind cover
5117 NM	Aluminium, casting finish	Blind cover

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The power dissipation within the junction box shall be limited to a maximum of 3.5 W.
2. Use damp cloth for cleaning to avoid electric charging hazard.
3. The flameproof joints are not intended to be repaired.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 – this Issue introduced the following changes:

1. As an alternative to populating these Junction Boxes with terminals, they may now be fitted with an indicating device as described in the certificate Annexe

Issue 2 – this Issue introduced the following changes:

1. To remove Indicating Device. In accordance with Section 1.1.1 of report R80281803A, the Annex added in IECEx SIR 10.0091X Issue 1 has been removed as part of this variation.
2. Following appropriate assessment to demonstrate compliance with the latest standards, IEC 60079-0:2007 Ed 5, IEC 60079-1:2007 Ed 6 and IEC 60079-31:2008 Ed 1, were replaced by IEC 60079-0:2017 Ed 7 + COR1:2020, IEC 60079-1:2014 Ed 7 + COR1:2018 and IEC 60079-31:2022 Ed 3/Cor1:2023.
3. Models with enclosures without epoxy coated have been added.