



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX SIR 09.0118U**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 2

[Issue 1 \(2018-03-06\)](#)

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

Date of Issue: 2021-03-31

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

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

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof and Dust**

Marking: Ex db IIC Gb
Ex tb III C Db IP68

Approved for issue on behalf of the IECEx
Certification Body:

Neil Jones

Position:

Certification Manager

Signature:
(for printed version)

Date:

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:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom





IECEx Certificate of Conformity

Certificate No.: **IECEx SIR 09.0118U**

Page 2 of 4

Date of issue: 2021-03-31

Issue No: 2

Manufacturer: **International Metal Engineering Pte Ltd**

Blk 13
Toa Payoh Lorong 8
06-05 Braddell Tech Park
Singapore
319261
Singapore

Additional manufacturing locations:

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/ExTR18.0014/00](#)

[GB/SIR/ExTR21.0026/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0040/08](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx SIR 09.0118U**

Page 3 of 4

Date of issue: 2021-03-31

Issue No: 2

Ex Component(s) covered by this certificate is described below:

7117 **, Range of Enclosures

The 7117 ** instrument enclosure, 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.

8117 **, Range of Enclosures

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.

Refer to the Annexe for the ranges, Schedule of Limitations.

SCHEDULE OF LIMITATIONS:

Refer to Annexe



IECEx Certificate of Conformity

Certificate No.: **IECEx SIR 09.0118U**

Page 4 of 4

Date of issue: 2021-03-31

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

This issue, Issue 2, recognises the following changes; refer to the certificate annex to view a comprehensive history:

1. 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.
2. Replace current external label with an internal label.

Annex:

[IECEx SIR 09.0118U Issue 2 Annexe.pdf](#)

Annexe to: IECEx SIR 09.0118U Issue 2

Applicant: International Metal Engineering Pte Limited

Apparatus: 7117 ** and 8117 ** Ranges of Enclosures



7117 ** Range		
Reference	Material of construction	Option
7117 ST	Stainless steel	Window cover
7117 SM	Stainless steel	Window cover
7117 TT	Stainless steel	Blind cover
7117 TM	Stainless steel	Blind cover
7117 WT	Aluminium, epoxy coated	Window cover
7117 WM	Aluminium, epoxy coated	Window cover
7117 AT	Aluminium, epoxy coated	Blind cover
7117 AM	Aluminium, epoxy coated	Blind cover
7117 CT	Aluminium, cast finished	Window cover
7117 CM	Aluminium, cast finished	Window cover
7117 NT	Aluminium, cast finished	Blind cover
7117 NM	Aluminium, cast finished	Blind cover
8117 ** Range		
Reference	Material of construction	Option
8117 ST	Stainless steel	Window cover
8117 SM	Stainless steel	Window cover
8117 TT	Stainless steel	Blind cover
8117 TM	Stainless steel	Blind cover
8117 WT	Aluminium, epoxy coated	Window cover
8117 WM	Aluminium, epoxy coated	Window cover
8117 AT	Aluminium, epoxy coated	Blind cover
8117 AM	Aluminium, epoxy coated	Blind cover

Schedule of Limitations

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

Full certificate change history

Issue 1 – this Issue introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2007 Ed.5, IEC 60079-1:2007 Ed.6 and IEC 60079-31:2008 Ed.1 were replaced by IEC 60079-0:2011 Ed.6, IEC 60079-1:2014 Ed.7 and IEC 60079-31:2013 Ed.2, 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 IEC 60079-1:2014 Annex C.2.2, therefore a specific condition of use is added to this certificate.

Issue 2 – this Issue 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.

Date: 31 March 2021

Page 1 of 1

Form 9530 Issue 1

Sira Certification Service

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

Tel: +44 (0) 1244 670900
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org