



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 ITS 12.0050U**

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Certificate history:

Status: **Current**

Issue No: 3

Issue 2 (2017-07-11)

Issue 1 (2013-01-30)

Issue 0 (2013-01-04)

Date of Issue: 2022-04-05

Applicant: **Purge Solutions Inc**
592 Avenue E 1/2
Alvin
Texas 77511
United States of America

Ex Component: Increased Safety Windows Kits

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: **Increased Safety Ex eb & Dust by Enclosure Ex tb**

Marking: Ex eb IIC Gb

Ex tb III C Db IP66

Service temperature range -40°C to 80°C

IECEX ITS 12.0050U

Approved for issue on behalf of the IECEx
Certification Body:

Mark Newman

Position:

Certificate Officer

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:

Intertek Testing & Certification Limited
ITS House, Cleeve Road
Leatherhead
Surrey, KT22 7SA
United Kingdom

intertek



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Alvin
Texas 77511
United States of America

Manufacturing locations: **Purge Solutions**
592 Avenue E 1/2
Alvin
Texas 77511
United States of America

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 component 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 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/ITS/ExTR12.0051/00](#)
[GB/ITS/ExTR13.0003/00](#)

[GB/ITS/ExTR12.0051/01](#)

[GB/ITS/ExTR12.0051/02](#)

Quality Assessment Report:

[NO/PRE/QAR16.0018/02](#)



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

The Increased Safety Window Kits are mountable assemblies of aluminium or stainless steel bezels which are fitted with either tempered or laminated glass windows. They are secured by various cross-head screw arrangements and rely upon two silicon gaskets to prevent ingress when mounted. They can either be provided as directly mounted windows or an openable door style secured by a clamping arrangement.

The window kits are available in various sizes the smallest of which being approximately 99mm x 76mm and the largest being approximately 762mm x 508mm.

SCHEDULE OF LIMITATIONS:

- The increased safety Window Kits are suitable for installation into enclosure in atmosphere with flammable gasses and dust. For flammable gases, the enclosure must satisfy the requirements according to IEC 60079-0:2017 Ed 7.0 and EN 60079-7 Ed. 5.1 b:2017. For combustible dust the enclosure must satisfy the requirements according to IEC 60079-0:2017 Ed 7.0 and IEC 60079-31:2013 Ed 2.0
- The service temperature range of -40°C to +80°C shall not be exceeded.
- Consideration of Clause 7.5 of IEC 60079-0:2017 Ed 7.0 should be given when fitting the window kits to a non-metallic enclosure or a non-metallic part of an enclosure
- When mounted to an enclosure care should be taken to ensure the joint between the window kit and the enclosure wall maintains the required degree of protection



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

- Variation to increase the service temperature range from the original -40°C to 75°C to -40°C to 80°C.

Issue 2

- Allow for an option of either tempered or laminated glass.
- Allow an option of opening windows.
- Update the applied standards from IEC 60079-7:2006 Ed 4.0 & IEC 60079-31:2008 Ed 1.0 to IEC 60079-7:2015 Ed 5.0 & IEC 60079-31:2013 Ed 2.0.

Issue 3

- Update to IEC 60079-0:2017 Edition 7.0 and IEC 60079-7:2017 Edition 5.1.
- Update of QAR Reference.

Annex:

[Annex to IECEx ITS 12.0050U Issue 3.pdf](#)



Schedule of Drawings for Certificate: IECEX ITS 12.0050U Issue 3

Technical Documents

TITLE:	DRAWING NO.:	REV. LEVEL:	DATE:
1/4 DIN BEZEL INCREASED SAFTEY WINDOW KIT	MM-11151-E	E	25/JAN/12
1/4 DIN LAMINATED GLASS INCREASED SAFTEY WINDOW KIT	MM-11152-D	D	25/JAN/12
* 1/4 DIN BEZEL ATEX, IECEX and UKEx LABEL INCREASED SAFTEY WINDOW KIT	MM-11160-E	E	27/JAN/12
1/4 DIN GENERAL ASSEMBLY INCREASED SAFTEY WINDOW KIT	MM-11165-E	E	27/JAN/12
1/8 DIN BEZEL INCREASED SAFTEY WINDOW KIT	MM-11153-E	E	25/JAN/12
1/8 DIN LAMINATED GLASS INCREASED SAFTEY WINDOW KIT	MM-11154-D	D	25/JAN/12
" 1/8 DIN BEZEL ATEX, IECEX and UKEx LABEL INCREASED SAFTEY WINDOW KIT	MM-11161-E	E	27/JAN/12
1/8 DIN GENERAL ASSEMBLY INCREASED SAFTEY WINDOW KIT	MM-11166-E	E	30/JAN/12
1/16 DIN BEZEL INCREASED SAFTEY WINDOW KIT	MM-11155-E	E	25/JAN/12
1/16 DIN LAMINATED GLASS INCREASED SAFTEY WINDOW KIT	MM-11156-D	D	25/JAN/12
" 1/16 DIN BEZEL ATEX, IECEX and UKEx LABEL INCREASED SAFTEY WINDOW KIT	MM-11162-E	E	27/JAN/12
1/16 DIN GENERAL ASSEMBLY INCREASED SAFTEY WINDOW KIT	MM-11167-E	E	30/JAN/12
1/32 DIN BEZEL INCREASED SAFTEY WINDOW KIT	MM-11157-E	E	25/JAN/12
1/32 DIN LAMINATED GLASS INCREASED SAFTEY WINDOW KIT	MM-11158-D	D	25/JAN/12
* 1/32 DIN BEZEL ATEX, IECEX and UKEx LABEL INCREASED SAFTEY WINDOW KIT	MM-11163-E	E	25/JAN/12
1/32 DIN GENERAL ASSEMBLY INCREASED SAFTEY WINDOW KIT	MM-11168-E	E	30/JAN/12
EXTRA LARGE BEZEL INCREASED SAFTEY WINDOW KIT	MM-11149-E	E	20/JAN/12
EXTRA LARGE LAMINATED GLASS INCREASED SAFTEY WINDOW KIT	MM-11150-D	D	25/JAN/12
* EXTRA LARGE BEZEL ATEX, IECEX and UKEx LABEL INCREASED SAFTEY WINDOW KIT	MM-11159-E	E	25/JAN/12
EXTRA LARGE GENERAL ASSEMBLY INCREASED SAFTEY WINDOW KIT	MM-11164-E	E	27/JAN/12
* ATEX, IECEX and UKEx LABEL INCREASED SAFETY WINDOW KITS	DO-11268-B-1	B	23/DEC/16
* ATEX, IECEX and UKEx LABEL INCREASED SAFETY WINDOW KITS	DO-11268-B-2	B	23/DEC/16
* INCREASED SAFETY WINDOW KITS IOM MANUAL	DO-11012-E	E	05/JUN/21

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TITLE:	DRAWING NO.:	REV. LEVEL:	DATE:
OPENING ASSEMBLY DETAIL INCREASED SAFETY WINDOW KITS	DO-11289-A	A	15/JUN/17
NON-OPENING ASSEMBLY DETAIL INCREASED SAFETY WINDOW KITS	DO-11288-A	A	15/JUN/17

*Note: An * is included before the title of documents that are new or revised.*

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