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 BAS 10.0098U**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 4

Issue 3 (2018-10-12)
Issue 2 (2015-03-05)
Issue 1 (2013-03-15)
Issue 0 (2011-12-15)

Date of Issue: 2022-02-14

Applicant: **Littelfuse Philippines, Inc**
Lima Technology Centre
Special Economic Zone
Lipa City-Malvar
Batangas
Philippines

Ex Component: 259 Series Safe-T-Plus Fuse

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: **Intrinsic Safety**

Marking: **Ex**

Approved for issue on behalf of the IECEx Certification Body: **R. S. Sinclair**

Position: **Technical Manager**

Signature: (for printed version)

D BREARLEY
Certification Manager

Date: 14/2/2022

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:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

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Certificate No.: **IECEx BAS 10.0098U**

Date of issue: 2022-02-14

Manufacturer: **Littelfuse Philippines, Inc**
Lima Technology Centre
Special Economic Zone
Lipa City-Malvar
Batangas
Philippines

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 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 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-11:2011 Edition:6.0 — Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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/BAS/ExTR10.0211/00
GB/BAS/ExTR13.0073/00
GB/BAS/ExTR14.0368/00
GB/BAS/ExTR18.0259/00
GB/BAS/ExTR22.0020/00

Quality Assessment Report:

GB/BAS/QAR10.0018/07

IECEx Certificate of Conformity

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

The 259 Series Safe-T-Plus fuse is a range of fuses encapsulated to a minimum depth of 2mm (3mm typically) for use in intrinsically safe apparatus. The encapsulation material is Polyamide 6 which is stated by the manufacturer of the material to have a CTI greater than 175.

The leads are separated by a minimum creepage and clearance distance of 9mm.

The range of fuses covered by this Certificate, together with the minimum cold fuse resistance at -20°C and -40°C, is as follows:

Catalogue Number		**Rating**	**Resistance (Ω)**	
Yellow	**Green**		**-20°C**	**-40°C**
259.062xx	259.062xx913	62mA	4.89	4.39
259.125xx	259.125xx913	125mA	1.35	1.26
259.250xx	259.250xx913	250mA	0.51	0.48
259.375xx	259.375xx913	375mA	0.32	0.29
259.500xx	259.500xx913	500mA	0.24	0.22
259.750xx	259.750xx913	750mA	0.14	0.12
259001xx	259001xx913	1A	0.10	0.07
259003xx	259003xx913	3A	0.03	0.01
259005xx	259005xx913	5A	0.01	0.005

xx denotes supply packaging

The fuse is suitable for installation in equipment with Equipment Protection Level (EPL) Ga.

SCHEDULE OF LIMITATIONS:

1. The fuse must be mounted so as to ensure the creepage and clearance distances are not impaired in any way.

2. The fuse is suitable for use in intrinsically safe equipment for voltages not exceeding 190V peak.

3. When used in intrinsically safe equipment, it will be necessary to determine a surface temperature classification for the fuse:

Fuse Rating	**Maximum surface temp rise** (at 1.7In)
≤750mA	40°C
1A	55°C
3A	118°C
5A	135°C

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Variation 4.1

This issue of the certificate confirms the current design meets the requirements of IEC 60079-0:2017.

ExTR: **GB/BAS/ExTR22.0020/00**	**File Reference: 21/0103**