1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Component Intended for use on/in an Equipment or Protective System**
Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU

3 EU - Type Examination Certificate Number: **Baseefa02ATEX0071U – Issue 7**

3.1 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. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **259 Series Safe-T-Plus Fuse**

5 Manufacturer: **Littelfuse Philippines Incorporated**

6 Address: **Lima Technology Centre, Special Economic Zone, Lipa City, Malvar, Batangas, Philippines 4233**

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa02ATEX0071U to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-11:2012**

except in respect of those requirements listed at item 18 of the Schedule.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

Ⓔx II 1 G Ex

SGS Baseefa Customer Reference No. **5095** Project File No. **21/0103**

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13 # Schedule

14 ## Certificate Number Baseefa02ATEX0072U – Issue 7

15 Description of Product

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.

16 Report Number

See Certificate History

17 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 1.7I_n)*
≤ 750mA	40°C
1A	55°C
3A	118°C
5A	135°C

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following may be considered relevant to this product, depending upon how the component is used in the equipment:

Clause	Subject	Compliance
1.2.7	LVD type requirements	Manufacturer responsibility
1.4.1	External effects	User/Installer responsibility
1.4.2	Aggressive substances, etc.	User/Installer responsibility

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
0259000	1 of 1	U	12.20.21	Quick Act Fuse (Safe-T-Plus)

This drawing is common to IECEx BAS 10.0098U and BAS21UKEX0085U.

20 Certificate History

Certificate No.	Date	Comments
Baseefa02ATEX0071U	13 March 2003	The release of prime certificate. The associated test and assessment against the requirements of EN 50014:1997 + Amendments 1 & 2 and EN 50020:2002 is documented in Test Report No. 02(C)0163.
Baseefa02ATEX0071U/1	10 January 2005	To permit the addition of 3A and 5A fuses to the range of 259 Series Safe-T-Plus Fuses. Project File No. 04/0811.
Baseefa02ATEX0071U/2	1 November 2005	To permit minor drawing changes. Project File No. 05/0714.
Baseefa02ATEX0071U Issue 3	15 December 2011	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate, introduces the minimum cold fuse resistance data and confirms the current design meets the requirements of EN 60079-0: 2009 & EN 60079-11: 2007 including the revision of the component marking in accordance with these standards. This variation is documented in report GB/BAS/ExTR10.0211/00. Project File No. 10/0719.
Baseefa02ATEX0071U Issue 4	15 March 2013	To permit minor drawing changes. Report No. GB/BAS/ExTR10.0211/00. Project File No. 13/0190.
Baseefa02ATEX0071U Issue 5	5 March 2015	To permit minor drawing changes, confirm the current design meets the requirements of EN 60079-0: 2012 & EN 60079-11:2012 and confirm that the fuse is suitable for installation in equipment with an EPL Ga. Report No. GB/BAS/ExTR14.0368/00. Project File No. 14/0987.
Baseefa02ATEX0071U Issue 6	12 October 2018	To permit minor drawing changes and to confirm the current design meets the requirements of EN 60079-0:2012+A11:2013. Report No. GB/BAS/ExTR18.0259/00. Project File No. 18/0132.
Baseefa02ATEX0071U Issue 7	14 February 2022	To confirm that the current design meets the requirements of EN 60079-0:2018. Report No. GB/BAS/ExTR22.0020/00. Project No. 21/0103.
For drawings applicable to each issue, see original of that issue.		