

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in a Product or Protective System Intended for use in
Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS21UKEX0085U**

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 product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product 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 Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **21(C)0103**

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 the basis for certification of an equipment or protective system.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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:

 **II 1 G Ex**

SGS Baseefa Customer Reference No. **5095**

Project File No. **21/0103**

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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa
Limited

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Schedule

14

Certificate Number BAS21UKEX0085U

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

21(C)0103

17 Specific Conditions of Use

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:

<i>Fuse Rating</i>	<i>Maximum surface temp rise (at 1.7I_n)</i>
≤ 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 are considered relevant to this product:

Clause	Subject	Compliance
13	Protection against other hazards (LVD type requirements, etc.)	Manufacturer responsibility
14	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
22(1)	External effects	User/Installer responsibility
22(2)	Aggressive substances, etc.	User/Installer responsibility

19 Drawings and Documents

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

This drawing is common to Baseefa02ATEX0071U and IECEx BAS 10.0098U