

EU - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU

EU - Type Examination Certificate Number: **Baseefa18ATEX0141X – Issue 2**

Product: **A Range of VCG 24V EX 2/4 Series Surge Protection Devices**

Held by: **Weidmuller Interface GmbH & Co. KRG**

Address: **Klingenbergstrasse 16, 32758 Detmold, Germany**

This re-issued certificate extends EU Type Examination Certificate No. Baseefa18ATEX0141X 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.

SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

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

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

EN 60079-0: 2012 + A11: 2013 **EN 60079-11: 2012**

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

If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

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.

The marking of the product shall include the following :

II 1G Ex ia IIC T6 Ga (-30°C ≤ Ta ≤ 50°C)
II 1D Ex ia IIIC T85°C Da (-30°C ≤ Ta ≤ 50°C)

SGS Baseefa Customer Reference No. **4415**

Project File No. **19/0433**

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SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail baseefa@sgs.com web site www.sgs.co.uk/sgsbaseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

R S Sinclair

R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

D BREARLEY
Certification
Manager

13 **Schedule**

14 **Certificate Number Baseefa18ATEX0141X – Issue 2**

15 **Description of Product**

The Range of VCG 24V EX 2/4 Series Surge Protection Devices are designed to provide protection for sensitive electronic equipment, and are intended to be mounted within a Hazardous Area. All units have the same safety input parameters for intrinsic safety purposes and all connections for both the single and dual channel electrical circuits must form part of the same intrinsically safe circuit.

The Range of VCG 24V EX 2/4 Series Surge Protection Devices comprise various combinations of electrical components which include three-terminal gas discharge tubes, two-terminal gas discharge tubes, inductors, silicon avalanche diodes, bi-directional zener diode, and resistors mounted on a printed circuit board. Each of these assemblies is encapsulated within a solid drawn hexagon metal bar drilled along its axis to accept a printed circuit board and closed at one end. The open end is provided with a threaded stub intended for screwing into the wall of an enclosure. The connection wires emerge from the encapsulation and are intended to be terminated within the enclosure.

The Range of VCG 24V EX 2/4 Series Surge Protection Devices comprises five different electrical configurations encapsulated within a hexagonal tubular metal stub, all of which are available with a ½" NPT, M20x1.5 or G½" (BSP ½") thread form for insertion into a gland entry of an enclosure. The electrical circuit connections form part of an intrinsically safe circuit and the hexagonal metal stub may be inserted into a gland entry of an enclosure. All connections for both the single and dual channel electrical circuits must form part of the same intrinsically safe circuit.

VCG 24V EX 2 designed to protect a 24V nominal, single channel electrical circuit.

VCG 24V EX 4 designed to protect a 24V nominal, dual channel electrical circuit each having separate returns.

Input Parameters:

$$U_i = 50V$$

$$I_i = 800mA$$

$$P_i = 2W$$

$$C_i = 0$$

$$L_i = 60\mu H$$

16 **Report Number**

See Certificate History

17 **Specific Conditions of Use**

1. All connections for both the single and dual channel electrical circuits must form part of the same intrinsically safe circuit.
2. The apparatus must be installed such that the flying leads are afforded a degree of protection of at least IP54 and segregated by at least 50mm from any non-intrinsically safe circuits in accordance with EN 60079-11.
3. Although all versions of the Range of VCG 24V EX 2/4 Series Surge Protection Devices will meet the 500V r.m.s. test to the metal case, the electrical circuits within the Surge Protection Devices are not capable of withstanding the 500V r.m.s. test to the Green/Yellow wire for one minute without breakdown. This must be taken into consideration in any installation.

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
1.2.7	LVD type requirements	Standards require manufacturer's declaration, supplied.
1.2.8	Overloading of equipment (protection relays, etc.)	Covered by installation rules and manufacturer's instructions

Clause	Subject	Compliance
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions

19 Drawings and Documents

New drawings submitted for this issue of certificate:

None

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
127.627.101	1	01	29.11.18	VCG 24V EX 2 NPT 1/2 WM - Engraving
127.628.101	1	01	29.11.18	VCG 24V EX 4 NPT 1/2 WM - Engraving
127.629.101	1	01	29.11.18	VCG 24V EX 2 M20X1.5 WM - Engraving
127.630.101	1	01	29.11.18	VCG 24V EX 4 M20X1.5 WM - Engraving
127.631.101	1	01	29.11.18	VCG 24V EX 2 G½ WM - Engraving
127.632.101	1	01	29.11.18	VCG 24V EX 4 G½ WM - Engraving

GB/BAS/ExTR19.0242/00 & Baseefa14ATEX0364X also list the remainder of the current drawings which remain unaffected by this issue.

The above drawings are associated and held with IECEx Certificate No. IECEx BAS 18.0085X

20 Certificate History

Certificate No.	Date	Comments
Baseefa18ATEX0141X	24 November 2018	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2012 + A11: 2013 and EN 60079-11: 2012 is documented in Test Report No. GB/BAS/ExTR18.0276/00 and stored with Project File No. 18/0543.
Baseefa18ATEX0141X Issue 1	30 May 2019	To permit minor drawing changes and corrections to the marking. The related assessment is documented in Test Report No. GB/BAS/ExTR19.0146/00 and stored with Project File No. 19/0137.
Baseefa18ATEX0141X Issue 2	24 September 2019	To perform an assessment related to the enclosure of the equipment not affecting the previous assessment. The related assessment is documented in Test Report No. GB/BAS/ExTR19.0242/00 and stored with Project File No. 19/0433.
For drawings applicable to each issue, see original of that issue.		