

SIRCO CONTROLS LIMITED
Sweynes Industrial Estate
Ashingdon Road, Rochford
Essex, U.K., SS4 1RQ



Phone: +44 (0)1702 545125
E-mail: info@sirco-controls.co.uk
Web: www.sirco-controls.co.uk
VAT No. 250 2302 20

Ref: DoC/H/H2 Iss 14

EU DECLARATION OF CONFORMITY No. DoC/H/H2

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

⊕ II 2 G Ex db IIB + H₂ T6 Gb (T_{amb} -20°C to +60°C)

Type H Series Microswitch Unit

Certificate No. Baseefa02ATEX0025X—Issue 4

Type H2 Series Microswitch Unit

Certificate No. Baseefa02ATEX0026X—Issue 3

The EU-Type Examination Certificate and schedules apply to the **Sirco Type ATEX Series H & H2**
Range of Pressure and Temperature Switches compliant to:
EN IEC 60079-0:2018, EN 60079-1:2014

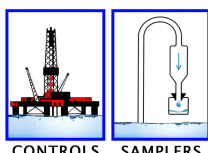
The Schedules apply to the variations in material, electrical ratings and microswitch types, permitted by the Certifying Authority and one or more of the Schedules may apply to the Unit supplied. The whole, however, constitutes the Certificate.

This EU Declaration of Conformity is issued under sole responsibility of Sirco Controls who are Approved by SGS Fimko Oy to manufacture and affix the mark (Granted under specific rules) to several products. These products comply with the Certified design and the rules of the ATEX Directive and as such, the presence of the affixed label bearing the mark of SGS Fimko Oy 0598 and the Certificate No. is sufficient proof of the Ex Type Examination Certificate and attached schedules existence. It is not, therefore, mandatory to supply copies of these documents.

Compliance with the Essential Health & Safety Requirements of the Directive has been assured by SGS Fimko Oy against the requirements of EN IEC 60079-0:2018, EN60079-1:2014.

**Paul Yeomanson
MANAGING DIRECTOR**

**Place: Rochford
Date of Issue: 01.02.23**



Registered in England No. 672489
Registered Office: Charter House, 105 Leigh Road, Leigh on Sea, SS9 1JL



1 **EU - TYPE EXAMINATION CERTIFICATE**

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

3 EU - Type Examination Certificate **Baseefa02ATEX0026X – Issue 3**
Number:

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: **Type H2 Series Microswitch Unit**

5 Manufacturer **Sirco Controls Limited**

6 Address: **Sweynes Industrial Estate, Ashingdon Road, Rochford, Essex, SS4 1RQ,
UK**

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa02ATEX0026X** 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 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.

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. **22(C)0482**

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

EN IEC 60079-0:2018 EN 60079-1:2014

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

10 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.

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:

⊕ II 2 G Ex db IIB + H₂ T6 Gb (Tamb -20°C to +60°C)

SGS Fimko Oy Customer Reference No. **0997**

Project File No. **22/0482**

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SGS Fimko Oy

Takomotie 8
FI-00380 Helsinki, Finland
Telephone +358 (0)9 696 361
e-mail sgs.fimko@sgs.com
web site www.sgs.fi

Business ID 0978538-5 Member of the SGS Group (SGA SA)



Mikko Välimäki
Authorised Signatory for SGS Fimko Oy

13

Schedule

14

Certificate Number Baseefa02ATEX0026X – Issue 3

15 Description of Product

The Type H2 Microswitch Unit comprises a flat flanged housing and cover manufactured from aluminium alloy or cast iron. The cover is attached using 4 screws of grade A2-70 stainless steel. The housing has provision for a threaded bushing with an operating shaft and up to two cable entries. The internal arrangement comprises a terminal block and up to two specified microswitches or one microswitch and two end of line resistors, Various specified microswitches can be fitted with various ratings to produce type references as indicated below:

Type Reference	Rating
H2(BZ-2R)	15A Res. 125, 250, 480Vac 0.125 HP 125 125Vac, ¼ HP 250Vac 0.25A 250Vdc, ½ A 125Vdc
H2(BZ-R)	15A Res. 125, 250, 480Vac 0.125 HP 125 125Vac, 0.25HP 250Vac
H2(BZ-2R-722331)	1A Res. 125Vac 1A Res. 24Vdc 0.5A Ind. 24Vdc
H2(BM-2R)	15A Res. 125, 250, 480Vac 2A Res. 30Vdc, 0.4A Res. 125Vdc 0.2A Res. 230Vdc
H2(BM-1R)	15A Res. 125, 250, 480Vac 2A Res. 30Vdc, 0.4A Res. 125Vdc 0.2A Res. 230Vdc

Internal and external earth facilities are provided.

Each housing has provision for a single cable entry device and the thread form (M20 unless otherwise specified) is indicated on the housing. This is for the accommodation of a suitably certified flameproof cable entry device, with or without the interposition of a suitably certified flameproof thread adapter.

16 Report Number

22(C)0482

17 Specific Conditions of Use

1. The maximum plunger / threaded bush flamepath gap shall not exceed 0.1mm

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, and conformity is demonstrated in the report:

Clause	Subject
13	LVD type requirements
14	Overloading of equipment (protection relays etc.)
21 (1)	External effects
21 (2)	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
A3-2105	1 of 1	R	24.11.22	General Assembly – H2 with two switches
A3-2105/A	1 of 1	2	24.11.22	General Assembly – H2 with one switch and resistors
A3-2107	1 of 1	L	24.11.22	Housing - Machining
A3-2109/2	1 of 1	M	24.11.22	Cover – Machining
A3-2120	1 of 1	8	23.11.2022	Certification Label – H2

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
A3-2119	1 of 1	A	30.01.03	Housing – Optional Machining

20 Certificate History

Certificate No.	Date	Comments
Baseefa02ATEX0026X	11 February 2003	The release of the prime certificate. The associated test and assessment against the requirements of EN 50014: 1997+ amd. 1 & 2 and EN 50018: 2000 is documented in Test Report No. 02(C)0087/1.
Baseefa02ATEX0026X/1	18 February 2013	To review against additional design and test requirements of EN 60079-0: 2012 and EN 60079-1: 2007
Baseefa02ATEX0026X/2	3 February 2016	To review against additional design and test requirements of EN 60079-0: 2012 + A11 2013 and EN 60079-1: 2014 as documented in Test Report No. 16(C)0072/1
Baseefa02ATEX0026X Issue 3	10 January 2023	To review against additional design and test requirements of EN IEC 60079-0: 2018 and is documented in Test Report No. 22(C)0482 and also introduce the following variations: Remove the options of using Box type H2(MT-4R) from the Type Two or Twin Switch enclosure and Box types H2(1HM1), H2(3HM1), H2(MT-4R), H2(91SE1) and H2(91SE1-3N55) from the Type Single Switch and Resistor Network enclosure. Remove the optional Electrical Entry Thread Forms ¾” ET, Pg13.5 and ½” NPT
For drawings applicable to each issue, see original of that issue.		