

1 **TYPE EXAMINATION CERTIFICATE**

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

3 Type Examination Certificate Number: **Baseefa13ATEX0076X – Issue 1**

3.1 In accordance with Article 41 of Directive 2014/34/EU, 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 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: **Transmitter Power Supply Type HiC2027***

5 Manufacturer: **Pepperl + Fuchs GmbH**

6 Address: **Lilienthalstrasse 200, 68307 Mannheim, Germany**

7 This re-issued certificate extends Type Examination Certificate No. Baseefa13ATEX0076X 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 Baseefa certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products of Category 3 intended for use in potentially explosive atmospheres given in Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

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 60079-0:2012+A11:2013 EN 60079-15:2010

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 TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the product shall include the following :

⊕ II 3G Ex nA IIC T4 Gc (-20°C ≤ Ta ≤ +60°C / +70°C)

SGS Baseefa Customer Reference No. 0808

Project File No. 15/0848

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R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa13ATEX0076X – Issue 1

15 Description of Product

The Transmitter Power Supply Type HiC2027* is designed to transfer monitoring signals from equipment in a hazardous area to unspecified apparatus located in a non-hazardous area and to transfer communication signals in both directions. The hazardous area circuit is galvanically isolated from the non-hazardous area circuit using transformers and the voltage and current appearing at the hazardous area connectors are limited to intrinsically safe levels.

The Transmitter Power Supply HiC2027* comprises a number of electronic components including four isolating transformers, fuses, zener diodes and resistors all mounted on a single printed circuit board and housed in a plastic enclosure with two polarised sockets in the base of the enclosure for hazardous and non-hazardous area connections via a terminal backplane. LED indication is provided for power-on status.

The following variants are covered by this certificate:

HiC2027
HiC2027ES
HiC2027DE
HiC2027(**)-Y1..n
HiC2017
HiC2017ES
HiC2017(**)-Y1..n

This certificate covers the installation of the Transmitter Power Supply Type HiC2027* in a Category 3 / Zone 2 location.

Input / Output Parameters

Supply circuit:

(SL1:Pins 2a[+]/b[+] w.r.t 1a[-]/1b[-]) 19 - 30VDC

Outputs:

(SL1:Pin 8a[+] w.r.t. 7a[-]) 0/4 - 25mA or
(SL1:Pin 10a[+] w.r.t. 9a[-]) 0/1 - 6.25V

(SL2:Pin 1a[+] w.r.t 1b[-]) 0/4 - 25mA
(SL2:Pin 5a[+] w.r.t. 5b[-]) Or the maximum values for the I.S. circuits
have to be taken from the EC-Type certificate
Baseefa13ATEX0075X.

16 Report Number

GB/BAS/ExTR16.0150/00

17 Specific Conditions of Use

1. The HiC2027* must be installed on a suitably certified Pepperl + Fuchs H-System backplane.
2. The HiC2027* must be installed in a suitably certified enclosure such that it is afforded a degree of protection of at least IP54 in accordance with EN 60529 and EN 60079-15 and is in an area of not more than pollution degree 2, as defined in IEC/EN 60664-1.

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	Compliance
1.2.7	LVD type requirements	Manufacturer responsibility
1.2.8	Overloading of equipment (protection relays, etc.)	User/Installer 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
16-0806BS-B	1 of 1	B	2016-May-03	Summary
16-0806BS-00B	1 – 11	B	2015-Nov-16	Description
16-0806BS-01A	1 – 4	A	2015-Nov-16	Schematic
16-0806UL-02A	1 – 8	A	2016-May-03	Div 2 / Zone 2 Relevant Components
16-0806BS-03A	1 & 2	A	2015-Nov-16	Layouts
16-0806BS-05A	1 – 4	A	2015-Nov-16	Layouts
16-0806BS-06A	1 – 7	A	2016-May-03	Transformer
16-0806BS-10A	1 – 3	A	2015-Nov-16	Type Label

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
16-0533-04	1 & 2	-	2005-Dec-05	Mechanical Parts (Housing)

All drawings are common to Baseefa13ATEX0075X and IECEx BAS 13.0042X and held with IECEx BAS 13.0042X.

20 Certificate History

Certificate No.	Date	Comments
Baseefa13ATEX0076X	12 December 2013 Reissued 9 April 2014	The release of the prime certificate. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR13.0132/01. Project File No. 13/0182.
Baseefa13ATEX0076X Issue 1	7 June 2016	To permit the use of alternative components requiring a minor PCB change, other minor drawing changes and to confirm that the current design meets the requirements of EN 60079-0: 2012+A11:2013 in respect of the differences from EN 60079-0:2012. Test Report No. GB/BAS/ExTR16.0150/00. Project File No. 15/0848.

For drawings applicable to each issue, see original of that issue.