



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System  
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa08ATEX0266U**

4 Component: **HTB Terminal Block**

5 Manufacturer: **Hawke International**

6 Address: **Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA, UK**

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

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components 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. **GB BAS ExTR08.0185/00**

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

**EN 60079-0: 2006 EN 60079-7:2007**

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

12 The marking of the component shall include the following :

 **II 2G Exe IIC Gb**

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0500**

Project File No. **04/0912**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa**

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**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa



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## Schedule

14

Certificate Number Baseefa08ATEX0266U

### 15 Description of Component

The HTB Terminal Block comprises a circular nylon base into which are moulded between 2 and 6 nickel-plated brass terminal pillars. The terminal block is rated at 37Amps and 550Volts.

The terminals are separated by 6 integrally moulded barriers. The threaded terminal pillar has a slot to receive conductors. The conductors are secured by a threaded terminal cap, which is screwed onto the top of the pillar. The cap has a screwdriver slot on top and an optional knurl on its outer diameter.

Inside the terminal cap cavity is a pressure bar which can slide up and down the slot inside the pillar as the terminal cap is rotated. A pressure bar spindle sits above the pressure bar. It has a flange at its top, and is secured at the top of the cavity by a self locking ring under its flange, which locks against the cavity wall. It also contributes to clamping the assembly of parts inside the cavity. The pressure bar spindle passes down through the top of the pressure bar and the end of the spindle is swaged over. This completes the securing of the assembly of parts inside the cavity and also enables the over pressure to slide up and down the spindle. The pressure bar also has a flange at the top. A helical compression spring is positioned between the top of this flange and the underside of the self locking ring.

When the conductors are connected to the terminal they are held in the slot under the pressure of the bar, with the spring fully compressed, which locks the connection.

The voltage rating is an absolute condition of use and includes the 10% margin permitted in EN 60079-7. The current ratings below are not absolute maximums but are recommended values when used in general purpose junction boxes or marshalling boxes:

Cable Size (mm <sup>2</sup> )	Maximum Current (Amps)
1	8
1.5	10
2.5	15
4	21
6	26
10	37

Higher currents may be permitted subject to individual examination of each specific application.

Maximum Number of Conductors of the Same Size Connected to each Terminal:

Conductor Size (mm <sup>2</sup> )	Maximum Number of Conductors
10	2
6	3
4	4
Smaller conductors $\geq 0.5\text{mm}^2$	4

Conductors to be either all solid or all stranded.





Alternatively the following **PAIRS** of conductor combinations may be fitted:

1.5mm <sup>2</sup> solid with:	Stranded: 2.5mm <sup>2</sup> or 4mm <sup>2</sup> or 6mm <sup>2</sup> or 10mm <sup>2</sup> Solid: 1.5mm <sup>2</sup>
1.5mm <sup>2</sup> stranded with:	Stranded only: 0.9mm <sup>2</sup> or 1.2mm <sup>2</sup> or 1.5mm <sup>2</sup> or 2.2mm <sup>2</sup> or 2.5mm <sup>2</sup> or 4mm <sup>2</sup> or 6mm <sup>2</sup> or 10mm <sup>2</sup>
2.5mm <sup>2</sup> solid with:	Stranded: 0.9mm <sup>2</sup> or 1.2mm <sup>2</sup> or 6mm <sup>2</sup> or 10mm <sup>2</sup> Solid: 2.5mm <sup>2</sup> or 4mm <sup>2</sup>
2.5mm <sup>2</sup> stranded with:	Stranded only: 2.5mm <sup>2</sup> or 4mm <sup>2</sup> or 6mm <sup>2</sup> or 10mm <sup>2</sup>
4mm <sup>2</sup> stranded with:	Stranded only: 4mm <sup>2</sup> or 6mm <sup>2</sup> or 10mm <sup>2</sup>
6mm <sup>2</sup> stranded with:	Stranded only: 6mm <sup>2</sup> or 10mm <sup>2</sup>
10mm <sup>2</sup> stranded with:	Stranded only: 10mm <sup>2</sup>

Alternatively the following **THREE** conductors may be fitted in one terminal:  
Two solid 2.5mm<sup>2</sup> conductors and one 6mm<sup>2</sup> stranded conductor.

#### 16 Report Number

GB BAS ExTR08.0185/00

#### 17 Schedule of Limitations

1. Leads connected to the terminals shall have insulation extending to within 3mm of the terminal throat and the bare end of each lead shall not extend more than 3mm beyond the other side of the slot and shall remain straight.
2. The terminal cap of each terminal, used and unused, shall be fully tightened down by the end user.
3. Conductors of different sizes and configurations shall not be inserted into the same terminal throat/slot except for the specific combinations listed in this certificate schedule.
4. When installed in an enclosure the creepage and clearance distances between the terminals, adjacent equipment and enclosure walls must comply with the requirements of EN 60079-7.
5. When installed in plastic enclosures there shall be at least 3mm clearance between the inside of the removable cover/lid of the enclosure and the terminal screws, after the connections have been made and the terminal screws and cover/lid have been fully tightened down.
6. For conductor sizes less than 1mm<sup>2</sup> but not less than 0.5mm<sup>2</sup>, the maximum current rating shall not exceed 1 amp.
7. The service temperature range must not exceed -60°C to +100°C.

#### 18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

#### 19 Drawings and Documents

Number	Issue	Date	Description
*D2572	B	16/02/09	General arrangement
*D2573	A	06/07/01	Terminal pillar arrangement
*D2574	A	05/07/01	Base moulding
*D2575	A	05/07/01	Slotted body
**D2576	B	23/09/09	Slotted nut
**D2577	A	05/07/01	Pressure bar spindle
**D2578	A	05/07/01	Pressure bar
**D2579	A	05/07/01	Spring

\* These drawings are common to and held on IECEX BAS 08.0085U

\*\* These drawings are common to IECEX BAS 08.0085U, IECEX BAS 09.0010U and Baseefa09ATEX0035U and are held on the former

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**  
3 **Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0266U/1**

4 Component: **HTB Terminal Block**

5 Manufacturer: **Hawke International**

6 Address: **Oxford Street West, Ashton-Under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa08ATEX0266U to apply to components 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.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0500**

Project File No. **15/0103**

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R S SINCLAIR *pp ALW Oepes*

GENERAL MANAGER

On behalf of SGS Baseefa Limited



13 **Schedule**

14 **Certificate Number Baseefa08ATEX0266U/1**

15 **Description of the variation to the Component**

**Variation 1.1**

To add the new HPB\* Terminal Block:

The HPB\* Terminal Block is very similar to the existing circular HTB\* Terminal Block.

The HPB\* comprises a rectangular moulded plastic/insulated base with 4 partitioned sections, with 2 to 4 pillar type terminals, one per section. The Terminal Block is coded HPB2, HPB3 or HPB4. Any two adjacent pillars may be fitted with a terminal link to drawing number 9476.

The pillar terminal is the same as that already used in the existing HTB4 and HTB6 Terminal Blocks, therefore the conductor sizes, associated current ratings and conductor combinations per pillar are in-line with the existing HTB\* Terminal Block.

The HPB terminal block is rated at 37A and 550V.

16 **Report Number**

GB/BAS/ExTR15.00360/00

17 **Schedule of Limitations**

As listed previously and as follows:

1. Schedule number 7 on the prime certificate is now changed to:  
The service temperature range of the HTB\* Terminal Block shall not exceed -60°C to +100°C.
2. The service temperature range of the HPB\* Terminal Block shall not exceed -60°C to +75°C.
3. When the HPB\* is fitted with terminal link to drawing number 9476, the clearance distances may be affected.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Issue	Date	Description
90075	A	23/06/14	HPB* (parallel) terminal block general assembly
9472	B	17/12/13	HPB insert moulded part
9476	A	19/12/13	Terminal link for HPB
9477	A	13/07/14	4 way HPB terminal block assembly

All drawings are held with IECEx BAS 08.0085U and common to Baseefa08ATEX0266U.

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: **Baseefa08ATEX0266U/2**

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: **HTB Terminal Block**

5 Manufacturer: **Hawke International**

6 Address: **A Division of Hubbell Limited, A Member of the Hubbell Group of Companies, Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa08ATEX0266U to apply to products 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, 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 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.

9 Item 9 of the original Certificate is replaced by "Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0: 2012 + A11:2013 EN 60079-7: 2015**

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

12 The marking of the component has changed from the original Certificate and shall include the following:

HTB\*: **Ex** II 2G Ex eb IIC Gb Service Temperature -60°C to +100°C

HPB\*: **Ex** II 2G Ex eb IIC Gb Service Temperature -60°C to +75°C

SGS Baseefa Customer Reference No. **0500**

Project File No. **17/0618**

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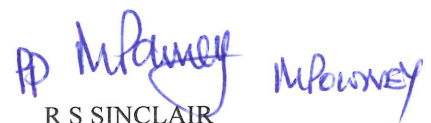
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R S SINCLAIR  
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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## Schedule

14

Certificate Number Baseefa08ATEX0266U/2

15 Description of the variation to the Product

### Variation 2.1

To confirm that the HTB\* and HPB\* terminal blocks covered by this certificate have been reviewed against the requirements of EN 60079-0: 2012+A11: 2013 and EN 60079-7: 2015 in respect of the differences from EN 60079-0: 2006 and EN 60079-7: 2007 and comply with the requirements of the latest standards.

The marking code changes to Ex eb. The marking is now as follows:

HTB\*:  II 2G Ex eb IIC Gb Service Temperature -60°C to +100°C

HPB\*:  II 2G Ex eb IIC Gb Service Temperature -60°C to +75°C

The original current ratings still apply:

Cable Size (mm <sup>2</sup> )	Maximum Current (Amps)
0.5	1
0.75	1
1	8
1.5	10
2.5	15
4	21
6	26
10	37

### Variation 2.2

HTB and HPB Terminal Block:

The specified tightening torque for each pillar is 1 to 2 Nm.

The terminal resistance for each pillar is 0.0003 Ohms

Each terminal pillar at 37A (+10%), fitted with 2 x 10mm<sup>2</sup> conductors has a rise of 11K.

16 Report Number

GB/BAS/ExTR17.0239/00

17 Schedule of Limitations

As listed previously, with existing schedule number 2 updated as follows:

1. The terminal cap of each terminal, used or unused, shall be fully tightened down by the end user. The tightening torque is 1 to 2 Nm.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.



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**19 Drawings and Documents**

<b>Number</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
Changed drawings:			
D2572	C	18/10/17	HTB terminal block general assembly
90075	B	18/10/17	HPB terminal block general assembly

These drawings are common to, and held on, IECEX BAS 08.0085U.