



## EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS01ATEX2275U**

Component: **TYPE HTB TERMINAL BLOCK**

Manufacturer: **HAWKE CABLE GLANDS LTD**

Address: **Ashton-under-Lyne, Lancashire, OL7 0NA**

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

The Electrical Equipment Certification Service, notified body number 600 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 N°

**01(C)0719 dated 15 August 2001**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014: 1997 + Amds 1 & 2**      **EN 50019: 2000**  
except in respect of those requirements listed at item 18 of the Schedule.

The sign "U" placed after the certificate number 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.

This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

The marking of the component shall include the following:-

 **II 2 G**      **EEx e II**

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

File No: **EECS 0500/03/062**

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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**I M CLEARE**  
DIRECTOR  
31 August 2001



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#### Description of Component

The **Type HTB Terminal Block** comprises of a circular nylon base into which are moulded between 2 and 6 nickel-plated brass terminal pillars rated at 37 amps and 550 volts. 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 a knurl on its outer diameter.

Inside the terminal cap cavity is a pressure bar which can slide up and down the slot in 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 pressure bar 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 conductors are connected to the terminal they are held in the slot under the pressure 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 50019. 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> )	Max. 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 No. 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.



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

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

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.

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**Schedule of Limitations**

1. Leads connected to the terminals shall have insulation extending to within 3mm of the terminal throat and the bared end of each lead shall not extend beyond the other side of the slot.
2. The terminal cap of each terminal, used or unused, shall be tightened down by the end user.
3. Conductors of different sizes shall not be inserted into the same terminal way except for the specific combinations listed in the 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 50019.
5. When installed in plastic enclosures there shall be at least 3mm clearance between the inside of the removable cover and the terminal screws, after the connections have been made and the terminal screws and cover have been fully tightened down.
6. For conductor sizes of less than 1mm<sup>2</sup> but not less than 0.5mm<sup>2</sup> the maximum current rating of 1 amp must not be exceeded.
7. The maximum service temperature must not exceed 75°C.



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**Essential Health and Safety Requirements**

None that are not covered by assessment against EN 50014: 1997, EN 50019: 2000 and EN 50281-1-1: 1998.

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**DRAWINGS**

<b>Number</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
D2572	A	11/7/01	General arrangement
D2573	A	6/7/01	Terminal pillar arrangement
D2574	A	5/7/01	Base moulding
* D2575	A	5/7/01	Slotted body
* D2576	A	4/7/01	Slotted nut
* D2577	A	5/7/01	Pressure bar spindle
* D2578	A	5/7/01	Pressure bar
* D2579	A	5/7/01	Spring

\* These drawings are common to certificate BAS01ATEX2274U

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**SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

**Component Intended for use on/in an Equipment or Protective System  
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Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number : **BAS01ATEX2275U/1**

4 Component: **TYPE HTB TERMINAL BLOCK**

5 Manufacturer : **HAWKE INTERNATIONAL**

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

7 This supplementary certificate issued by Baseefa (2001) Ltd., Notified Body Number 1180, extends EC - Type Examination Certificate No. BAS01ATEX2275U 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

The Electrical Equipment Certification Service, Notified Body Number 0600, retains responsibility for its original documentation. Baseefa (2001) Ltd. is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

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

Baseefa (2001) Ltd. Customer Reference No. 0500

Project File No. 02/0281

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

A handwritten signature in black ink that reads "R S Sinclair".

R S SINCLAIR

DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.

**Baseefa (2001) Ltd.**

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## Schedule

### Description of the variation to the Component

#### Variation 1.1

To allow an increase in service temperature for Type HTB Terminals up to 100°C.

#### Report No.

02(C)0281

#### Schedule of Limitations

As on the original certificate except no. 7 is replaced by:

7. The maximum service temperature must not exceed 100°C.

#### Essential Health and Safety Requirements

See original certificate

#### Drawings and Documents

None