



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa08ATEX0272X**

4 Equipment or Protective System: **PL7** Range of Junction Boxes**

5 Manufacturer: **Hawke International**

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

7 This equipment or protective system 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 equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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/ExTR08.0196/00**

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

IEC 60079-0: 2007, EN 60079-7: 2007, EN 61241-1: 2004

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II 2GD Ex e IIC T(variable) Gb Ex tb A21 IIIC T80°C Db

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

Baseefa Customer Reference No. **0500**

Project File No. **04/0903**

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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Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa08ATEX0272X

15 Description of Equipment or Protective System

The PL7** Range of Junction Boxes consist of the type ZPL7* range of plastic empty enclosures covered by Baseefa08ATEX0271U Exe II. The junction boxes are fitted with a variety of different terminal arrangements. All the terminals are covered by their own component certificates and are coded Exe II. The terminals are listed on D9160 held on Baseefa General Technical File 0500. The actual terminals fitted to each junction box will be listed in the schedule of the instruction sheet supplied with the junction box.

The terminals must be used within their relevant temperature range, voltage and current limitations, and fitted in accordance with EN 60079-7 with regard to creepage and clearance distances by Hawke International. Details on drawing C2542 describe partitioning arrangements which allow for the termination of intrinsically safe (i.s.) circuits and non i.s. circuits within the same junction box. When i.s. circuits are present an additional label is fitted to the outside of the junction box stating 'INTRINSICALLY SAFE CIRCUITS ENCLOSED'.

The maximum power dissipation within each junction box is as follows:

BOX TYPE	Maximum Power Dissipation (Watts)															Max. Cable Length per Terminal (M)			
	T _{amb} T ₆	T _{amb} 80°C	T _{amb} -??°C* to +40°C	T _{amb} T ₆	T _{amb} 80°C	T _{amb} -??°C* to +55°C	T _{amb} T ₆	T _{amb} 80°C	T _{amb} -??°C* to +65°C	T _{amb} T ₅	T _{amb} 80°C	T _{amb} -??°C* to +40°C	T _{amb} T ₅	T _{amb} 80°C	T _{amb} -??°C* to +55°C		T _{amb} T ₅	T _{amb} 80°C	T _{amb} -??°C* to +65°C
PL712	3.35			2.15			1.2			4.6			3.35			2.4			0.142
PL722	5.32			3.23			1.9			7.3			5.32			3.9			0.226

* Ambient temperature:

- 20°C with integral moulded-in earth continuity plate
- 60°C without integral moulded-in earth continuity plate

The maximum number of terminals which may be fitted into each junction box is calculate using the following formula:

$$\text{Power} = I^2 \times N (R_t + R_c) \text{ Watts}$$

Where:

I = Actual current through the conductor up to the maximum permitted certified current of the terminal when fitted in a junction box (Amps).

N = Number of terminals

R_t = Terminal resistance (Ohms at 20°C)

R_c = Resistance of one conductor (Ohms at 20°C) when using a maximum diagonal cable length listed in the above table.

Earth facilities and cable entries are described on the component certificate for the empty enclosures Baseefa08ATEX0271U. A suitable certified internal rail mounted earth terminal may be used if the integral moulded-in earth continuity plate is fitted, but shall be used if this plate option is not fitted. If a 'clean earth' is required a rail mounted power terminal may be used.

When required a component certified breather, drain or breather-drain or stopping plug may be fitted to the junction box as specified on the component certificate Baseefa08ATEX0271U.

The enclosures are fitted with a riveted label on the outside of the lid, with options for labels to be secured by adhesive or screws complete with Nyloc nuts.



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17 Special Conditions for Safe Use

1. Do not allow dust layers to build up on this product.
2. Unused cable entries must be fitted with stopping plugs as listed on the ZPL7 component certificate Baseefa08ATEX0271U. The operating temperature range and Ingress Protection rating of the enclosure is limited to that of the stopping plug fitted.
3. Only breather/drain devices as specified in the empty enclosure certificate Baseefa08ATEX0271U may be used with these enclosures. The breather/drain devices must be installed in their correct orientation in either the bottom face or bottom face gland plate of the enclosure. The operating temperature range and Ingress Protection rating of the enclosure is limited to that of the breather/drain device fitted.
4. All terminal screws, used and unused, shall be fully tightened down by the end user.
5. No more than one single or multi-stranded lead shall be connected to either side of any terminal unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated bootlace ferrule, or any method indicated on the terminal certificate.
6. Terminals shall be installed in such a manner that the creepage and clearance distances between the terminal and adjacent components, enclosure walls and covers complying with the requirements of EN 60079-7 for the rated voltage of the equipment.
7. Terminal temperatures must not exceed the operating range specified on the component certificate.
8. All terminals, and accessories such as cross-connectors, shall be installed in accordance with the terminal manufactures instructions. Hawke International will supply the relevant terminal manufacturer's instructions with each junction box covered by this certificate.
9. The maximum voltage, current and dissipated power shown on the rating label must not be exceeded.
10. When connecting conductors of cross section below the maximum allowed for the particular terminal then the maximum amps per pole must be reduced inline with the maximum amps permitted for a terminal equivalent to the conductor size fitted e.g. If a terminal that can take a 10mm² conductor at 40Amps is fitted with a 4mm² conductor then the current shall be reduced to a maximum of 22Amps, or the rating marked on the apparatus label, whichever is the lower.
11. When label fixing is by screws complete with Nyloc nuts then the Ingress Protection Rating is IP66.

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	Sheet	Issue	Date	Description
C2540	---	B	21/11/08	General Arrangement

Common to and held on IECEx BAS 08.0091X



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0272X/1**
- 4 Equipment or Protective System: **PL7** RANGE OF JUNCTION BOXES**
- 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. Baseefa08ATEX0272X to apply to equipment or protective systems 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.

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

Baseefa Customer Reference No. **0500**

Project File No. **10/0718**

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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Baseefa is a trading name of Baseefa Ltd
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R S SINCLAIR 
DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa08ATEX0272X/1

15 **Description of the variation to the Equipment or Protective System**

Variation 1.1

Addition of a further Special Condition for Safe Use regarding closing of unused entries.

16 **Report Number**

GB/BAS/TR10.0270/00

17 **Additional Special Conditions for Safe Use**

Unused entries may be fitted with alternative stopping plugs and or breather drains to those listed in the schedule. The user is responsible for ensuring that the protection concept, temperature class and relevant IP rating are maintained.

18 **Essential Health and Safety Requirements**

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

19 **Drawings and Documents**

None

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EU - Type **Baseefa08ATEX0272X/2**
Examination Certificate 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: **PL7** Range of Junction Boxes**

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. Baseefa08ATEX0272X 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: 2007 EN 60079-11: 2012 EN 60079-31: 2014

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

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

⊕ II 2G Ex e IIC T(see schedule) Gb

⊕ II 2D Ex tb IIIC T(see schedule)°C Db

SGS Baseefa Customer Reference No. **0500**

Project File No. **14/0945**

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa08ATEX0272X/2**

15 **Description of the variation to the Product**

Variation 2.1

To confirm that the junction boxes covered by this certificate have been reviewed against the requirements of EN 60079-0: 2012 + A11: 2013 and EN 60079-31: 2014 in respect of the differences from EN 60079-0: 2007 and EN 61241-1: 2006, and comply with the requirements of the latest standards.

Variation 2.2

The marking is updated as follows:

- ⊕ II 2G Ex e IIC T(see schedule) Gb
- ⊕ II 2D Ex tb IIIC T(see schedule)°C Db

Variation 2.3

For commercial purposes to suit the application, the PL7** range of junction boxes may be marked with Intrinsically Safety (I.S.) Ex i* coding. The manufacturer may opt to show both Ex e / Ex tb and Ex i* coding or just show Ex i* coding on the certification label.

Marking options:

- a) When only Ex e / Ex tb coding is marked on the certification label with the addition of a traffolyte label stating 'Intrinsically Safe circuits enclosed' or 'Intrinsically Safe and Non- Intrinsically Safe circuits enclosed', then the manufacturer shall show the ratings as the standard Ex e wattage, current and voltage ratings.
- b) When both Ex e/Ex tb and Ex i* coding is marked on the certification label, then the manufacturer shall show the ratings as the standard Ex e wattage, current and voltage ratings.
- c) When only Ex i* coding is marked on the junction box, then the manufacturer shall show the ratings as the reduced I.S. wattage, current and voltage ratings in-line with IEC 60079-11.

The marking is as follows:

- ⊕ II 2G Ex ib IIC T6 Gb
 - ⊕ II 2D Ex ib IIIC T80°C Db
- or
- ⊕ II 1G Ex ia IIC T6 Ga
 - ⊕ II 1D Ex ia IIIC T80°C Da

Variation 2.4

For commercial purposes, amend the dust Temperature Class to T95°C when used in conjunction with T5 for Ex e and Ex tb.

BOX TYPE	Maximum Power Dissipation (Watts)																		Max. Cable Length per Terminal (M)
	T _{rating} T6	T _{dust} 80°C	T _{amb} -??°C* to +40°C	T _{rating} T6	T _{dust} 80°C	T _{amb} -??°C* to +55°C	T _{rating} T6	T _{dust} 80°C	T _{amb} -??°C* to +65°C	T _{rating} T5	T _{dust} 95°C	T _{amb} -??°C* to +40°C	T _{rating} T5	T _{dust} 95°C	T _{amb} -??°C* to +55°C	T _{rating} T5	T _{dust} 95°C	T _{amb} -??°C* to +65°C	
PL712	3.35		2.15			1.2			4.6			3.35			2.4			0.142	
PL722	5.32		3.23			1.9			7.3			5.32			3.9			0.226	

16 Report Number

GB/BAS/ExTR16.0383/00

17 Specific Conditions of Use

As listed previously and as follows:

1. Condition 6 of prime certificate is replaced as follows:-

Terminals shall be installed in such a manner that the creepage and clearance distances between the terminal and adjacent components, enclosure walls and covers complying with the requirements of EN 60079-7 and EN 60079-11 for the rated voltage of the equipment.

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
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Changed drawing:

C2540	C	25/01/17	General arrangement, type PL7 series junction boxes
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Drawing is held with IECEx BAS 08.0091X and common to Baseefa08ATEX0272X.

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EU - Type **Baseefa08ATEX0272X/3**
Examination Certificate 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: **PL7** Range of Junction Boxes**

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. Baseefa08ATEX0272X 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 IEC 60079-0: 2018 EN 60079-7: 2015 EN 60079-11: 2012 EN 60079-31: 2014

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

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

⊗ II 2G Ex eb IIC T(see schedule) Gb

⊗ II 2D Ex tb IIIC T(see schedule) Db

Tamb (see schedule)

See schedule for marking for Intrinsic Safety (terminals)

SGS Baseefa Customer Reference No. **0500**

Project File No. **18/0484**

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M POWNEY
Certification
Manager

13 **Schedule**

14 **Certificate Number Baseefa08ATEX0272X/3**

15 **Description of the variation to the Product**

Variation 3.1

To confirm that the products covered by this certificate have been reviewed against the requirements of EN IEC 60079-0: 2018 and EN 60079-7: 2015 in respect to the differences from EN 60079-0: 2012+A11: 2013 and EN 60079-7: 2007, and that none of these differences in the standards affects this product except the marking with regard to Increased Safety Ex eb.

The products are in compliance with EN IEC 60079-0: 2018, EN 60079-7: 2015, EN 60079-11: 2012 and EN 60079-31: 2014. The PL7 Range of Junction Boxes are now marked as follows:

⊕ II 2G Ex eb IIC T* Gb

⊕ II 2D Ex tb IIIC T* Db

For Temperature Class T* and Temperature Ambient (see previous schedules)

or

The marking for Intrinsic Safety junction boxes remains unchanged:

⊕ II 2G Ex ib IIC T6 Gb

⊕ II 2D Ex ib IIIC T80°C Db

For Temperature Class T* and Temperature Ambient (see previous schedules)

or

⊕ II 1G Ex ia IIC T6 Ga

⊕ II 1D Ex ia IIIC T80°C Da

For Temperature Class T* and Temperature Ambient (see previous schedules)

Variation 3.2

Include the use of optional high bond tape for securing labels.

Variation 3.3

Include minor label artwork changes.

16 **Report Number**

GB/BAS/ExTR18.0266/00

17 **Specific Conditions of Use**

None additional to those listed previously.

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	Sheet	Issue	Date	Description
C2540	---	D	17/10/18	General arrangement type 'PL7' series junction boxes

This drawing is common to, and held with, IECEX BAS 08.0091X

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EU - Type **Baseefa08ATEX0272X/4**
Examination Certificate 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: **PL7** Range of Junction Boxes**

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. Baseefa08ATEX0272X 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 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 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.

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.

SGS Fimko Oy Customer Reference No. **0500**

Project File No. **20/0220**

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R S SINCLAIR

Authorised Signatory for SGS Fimko Oy

M POWNEY
Certification
Manager

13

Schedule

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Certificate Number Baseefa08ATEX0272X/4

15 Description of the variation to the Product

Variation 4.1

For commercial purposes to suit the end users' application, the manufacturer has requested an optional alternative Gas and Dust Group marking code.

The Gas Group code in the marking may be changed from IIC to that of either IIA or IIB on all products.
The Dust Group code in the marking may be changed from IIIC to that of either IIIA or IIIB on all products.

16 Report Number

GB/BAS/ExTR20.0080/00

17 Specific Conditions of Use

None additional to those listed previously

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	Sheet	Issue	Date	Description
C2540	1 of 1	E	27/04/20	General Arrangement Type 'PL7' Series Junction Boxes

This drawing is common to, and held on, IECEx BAS 08.0091X