

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in a Product or Protective System Intended for use in
Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS21UKEX0033U**

4 Product: **ZPL5** Range of Enclosures**

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **21(C)0033**

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

EN IEC 60079-0:2018 EN IEC 60079-7: 2015: +A1: 2018 EN 60079-31: 2014

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 the basis for certification of an equipment or protective system.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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 2G Ex eb IIC Gb**

 **II 2D Ex tb IIIC Db**

SGS Baseefa Customer Reference No. **0500**

Project File No. **21/0033**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail baseefa@sgs.com web site www.sgs.co.uk/sgsbaseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



0191



R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number BAS21UKEX0033U

15 Description of Product

The ZPL511, ZPL513, ZPL514 and ZPL520 Range of Empty Enclosures are square or rectangular enclosures moulded in black glass reinforced nylon.

The enclosures are available in the following sizes and ingress protection ratings:

Enclosure	length (mm)	width (mm)	height (mm)	Ingress Protection Rating
ZPL511	114	114	72	IP66 & IPX7 Some material options are only IP66 see schedule of limitations
ZPL513	138	138	95	IP66 & IPX7 Some material options are only IP66 see schedule of limitations
ZPL514	144	144	93	IP66 & IP67
ZPL520	200	138	95	IP66 & IPX7 Some material options are only IP66 see schedule of limitations

ZPL511:

The ZPL511 enclosure (Lighting Box) is available in four material options, Material Codes A, B, D and Z.

The standard material option is: Code B.

The enclosure Material Code will be located in the Enclosure Name or the Serial Number, or both.

i.e. Enclosure Name: ZPL511A

i.e. Serial Number (Material Code/Year/Serial Number): A/16/1234

NOTE: The standard enclosure material, Code B, will not be marked as the norm.

The enclosure comprises of two parts. The base with 3 moulded external mounting lugs on the centre of side and bottom faces and the removable cover secured by 4 screws that may be retained in the cover by nylon washers. The cover fixings screw into inserts at the corners of the body. The top face of the body has a reduced depth to aid easy access to internal components when the lid is removed.

Ingress protection of at least IP66 is achieved by the use of a one piece white silicone sponge gasket or a one piece moulded grey silicone rubber gasket, located in a groove in the cover which is compressed on assembly of the cover and base by a moulded protruding lip on the base. Controlled compression is achieved by suitable selection of the depth of cover groove and height of base lip.

Brass inserts are provided in the base for fixing internal components. The two side faces and bottom face of the enclosure may be drilled and tapped or drilled with clearance holes for cable entries. The top face is not suitable for entries. The maximum number, size and allowed location of these holes is defined on the relevant drawings listed below.

The enclosures may be fitted with a one piece earth continuity plate which is a cruciform shape with up to three folded up stands with punchings for cable entry devices in the up stands. There is no up stand on the top face. The earth continuity plate is suitably drilled and punched where appropriate for mounting to the enclosure base and for the mounting of enclosure components. Screws and washers are used to secure the plate to the base of the enclosure using the inserts provided in the base.

ZPL514:

The ZPL514 enclosure (Lighting Box) is available in one material option, standard Material Code B.

NOTE: The standard enclosure material Code B, is not normally marked. However, it is optional for the Material Code B to be located in the ZPL514 Enclosure Name or the Serial Number, or both.

i.e. Enclosure Name: ZPL514B

i.e. Serial Number (Material Code/Year/Serial Number): B/16/1234

The enclosure comprises of two parts. The base with 3 moulded external mounting lugs on the centre of side and bottom faces and the removable cover secured by 4 screws that may be retained in the cover by nylon washers. The cover fixings screw into inserts at the corners of the body. The top face of the body has a reduced depth to aid easy access to internal components when the lid is removed.

Ingress protection of IP66 and IPX7 is achieved by the use of a one-piece white silicone sponge gasket, located in a groove in the cover which is compressed on assembly of the cover and base by a moulded protruding lip on the base. Controlled compression is achieved by suitable selection of the depth of cover groove and height of base lip.

Brass inserts are provided in the base for fixing internal components. The two side faces and bottom face of the enclosure may be drilled and tapped or drilled with clearance holes for cable entries. The top face is not suitable for entries. The maximum number, size and allowed location of these holes is defined on the relevant drawings listed below.

The enclosures may be fitted with a one piece earth continuity plate which is a cruciform shape with up to three folded up stands with punchings for cable entry devices in the up stands. There is no up stand on the top face. The earth continuity plate is suitably drilled and punched where appropriate for mounting to the enclosure base and for the mounting of enclosure components. Screws and washers are used to secure the plate to the base of the enclosure using the inserts provided in the base.

ZPL513 and ZPL520:

The ZPL513 and ZPL520 enclosures are available in three material options, Material Codes B, D and G.

The standard material option is: Code B.

The enclosure Material Code will be located in the Enclosure Name or the Serial Number, or both.

i.e. Enclosure Name: ZPL513A i.e. Serial Number (Material Code/Year/Serial Number): G/16/1234

NOTE: The standard enclosure material, Code B, will not be marked as the norm.

The enclosures comprise of two parts: The base with moulded external mounting lugs at each corner and the removable cover secured by 4 screws that may be retained in the cover by nylon washers. The cover fixings screw into inserts at the corners of the body.

The ingress protection rating is achieved by the use of a clear silicone one piece moulded or hollow section round gasket located in a groove in the cover which is compressed on assembly of the cover and base by a moulded protruding lip on the base. Controlled compression is achieved by suitable selection of the depth of cover groove and height of the base lip and moulded-in or cut-in inserts in the body and lid fixing screws.

Brass inserts are provided in the base for fixing internal components. Any of the sides of the enclosure, may be drilled and tapped or drilled with clearance holes for cable entries. The maximum number, size and allowed location of these holes is defined on the relevant drawings listed in the certification report GB/BAS/ExTR13.0112/00.

Provision is made for up to four extra optional blind holes on either the cover or the base, or both, for the purpose of fixing additional labels on both enclosure sizes. The blind holes in the lid are located in the ribs.

The enclosures may be fitted with either a flat metallic mounting plate or an earth continuity plate which is a cruciform shape with up to four folded up stands with punchings for cable entry devices in the up stands. The earth continuity plate may also consist of metal up stands riveted or welded to a metal base plate or simply just the up stands on their own. Both the mounting plate and the earth continuity plate are suitably drilled and punched where appropriate for mounting to the enclosure base and for the mounting of enclosure components. Screws and washers are used to secure the plate to the base of the enclosure using the inserts provided in the base.

The enclosure may additionally be fitted with an M5 bottom entry through foot and pillar style external/internal earth stud assembly fitted in the enclosure base.

The enclosure may additionally be fitted with an internal busbar assembly.

ZPL5 Range:**

The enclosure may be fitted with Type IES 6/12 internal/external earth stud and ES 6/12 external earth stud to the existing IES10 & ES 10 earth stud range, as shown in GB/BAS/ExTR09.0029/00 held on IECEx BAS 09.0013U (Common to BAS21UKEX0037U and Baseefa09ATEX0039U).

The enclosure may additionally be fitted with a through-stud style external/internal earth stud assembly fitted in the enclosure wall, M6 or M8 that is in a threaded hole with sealant and o-ring, or an M6, M8 or M10 in a clearance hole with o-ring. The Ingress Protection rating is IP66 when the earth studs are fitted.

The enclosure may additionally be fitted with an M5 internal earth stud assembly fitted in an existing insert in the base of the enclosure.

The certification marking may be laser etched.

Standard Accessories List:

When required a Hawke International component or equipment certified, internal/external earth stud, stopping plug, breather-drain, as shown below, may be fitted to the enclosure or junction box as specified in the certification documents:

Manufacturer	Product	Type	Certificate Number	IP Rating
Hawke	Stopping Plug	375 375R	BAS21UKEX0053X IECExBAS12.0065X Baseefa12ATEX0095X 375: -60°C to +75°C 375R: -60°C to +65°C	IP66/67
Hawke	Stopping Plug	387	BAS21UKEX0051U IECExBAS06.0029U Baseefa06ATEX0118U Nitrile o-ring: -60°C to +80°C Silicone o-ring: -60°to +160°C	IP66/67
Hawke	Stopping Plug	390	BAS21UKEX0052X IECExBAS11.0079X Baseefa11ATEX0157X Nitrile o-ring: -60°C to +80°C Silicone o-ring: -60°to +160°C	IP66
Hawke	Stopping Plug	487	BAS21UKEX0058X IECExBAS11.0071X Baseefa11ATEX0149X Nitrile o-ring: -60°C to +80°C Silicone o-ring: -60°to +150°C	IP66/67
Hawke	Breather Drain	389 and 385	BAS21UKEX0043X IECExBAS11.0075X Baseefa11ATEX0153X Nitrile o-ring: -60°C to +80°C Silicone o-ring: 389: -60°to +150°C 385: -60°C to +80°C	IP66

Manufacturer	Product	Type	Certificate Number	IP Rating
Hawke	Int/Ext Earth	IES10, IES6/12, ES6/12	BAS21UKEX0037U IECExBAS09.0013U Baseefa09ATEX0039U -60°to +200°C	IP66

NOTE: Other suitable 'equipment' certified accessories may also be fitted to suit the application.

16 Report Number

21(C)0033

17 Schedule of Limitations

- The enclosure shall not be exposed to temperatures outside the range shown in this table, and the Ingress Protection Rating is as shown in this table:

Enclosure	Material Code	Service Temperature Range &	Ingress Protection
		Impact Risk Area	Rating (IP)
ZPL511	A	Normal Impact Risk Area: -60°C to +75°C	IP66 & IPX7
	B	Normal Impact Risk Area: -60°C to +75°C	IP66 & IPX7
	D	Low Impact Risk Area: -20°C to +75°C	IP66 & IPX7
	Z	Normal Impact Risk Area: -60°C to +75°C	IP66
ZPL513	B	Normal Impact Risk Area: -60°C to +75°C	IP66 & IPX7
	D	Normal Impact Risk Area: -30°C to +75°C	IP66 & IPX7
		Low Impact Risk Area: -60°C to +75°C	IP66 & IPX7
	G	Low Impact Risk Area: -20°C to +75°C	IP66
ZPL514	B	Normal Impact Risk Area: -60°C to +75°C	IP66 & IPX7
ZPL520	B	Normal Impact Risk Area: -60°C to +75°C	IP66 & IPX7
	D	Low Impact Risk Area: -25°C to +75°C	IP66
	G	Low Impact Risk Area: -20°C to +75°C	IP66

- When used as equipment, the enclosures in all Material Codes A, B, D, G and Z shall be marked with:

‘WARNING: Potential Electrostatic Hazard, Clean Only With a Damp Cloth’ (or equivalent technical text).
- Entry holes may be parallel threaded or plain, as shown on Drawing Number 9950. Entry holes shall be perpendicular to the equipment face to ensure the correct sealing arrangement of an accessory. Plain holes shall be no larger than 0.7mm above the major diameter of the accessory thread. Suitable sealing washers/o-rings will be required on the interfacing products.

4. Unused entry holes shall be fitted with suitable stopping plugs having an equipment certificate, or having a component certificate subject to the confirmation by the end user/installer of the ingress protection rating and the permitted service temperature of the component. The operating temperature range and ingress protection rating of the enclosure is limited to that of the stopping plug fitted, if below that of the enclosure.
5. Only component certified breather/drain devices as specified in the description above may be used with these enclosures, or any other suitable breather/drain devices having an equipment certificate that are suitable for the wall thickness of the enclosure to ensure draining can occur, subject to the confirmation by the end user/installer of the ingress protection rating and the permitted service temperature. The breather/drain devices must be installed in their correct orientation in the bottom face. The operating temperature range and Ingress Protection rating of the enclosure is limited to that of the breather/drain device fitted.
6. Only adaptor/reducer devices as specified above, or adaptor/reducer devices having an equipment certificate subject to the confirmation by the end user/installer of the ingress protection rating and the permitted service temperature, may be used with these enclosures. The operating temperature range and ingress protection rating of the enclosure is limited to that of the adaptor/reducer device fitted.
7. When the enclosure is fitted with the M6 or M8 brass or stainless steel internal/external earth stud, the ingress protection rating is IP66.
8. When the insulative ZPL5** enclosures are used as a junction box (equipment), and metal or foil backed certification label is fitted, the maximum label size shall not exceed 28mm x 70mm and only one label per box is permitted.

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
1.2.7	LVD type requirements
1.4.1	External effects
1.4.2	Aggressive substances

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
9950	1 to 4	G	26/05/21	General Arrangement ZPL5 empty enclosures
Baseefa14ATEX0248U IECEX BAS 14.0120U				