



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: IECEX BAS 14.0120U

Issue No: 5

Certificate history:

Status: **Current**

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Issue No. 5 (2019-03-26)

Date of Issue: **2019-03-26**

Issue No. 4 (2018-03-14)

Issue No. 3 (2017-08-31)

Issue No. 2 (2016-12-15)

Issue No. 1 (2015-12-17)

Issue No. 0 (2015-04-29)

Applicant: **Hawke International**
A Division of Hubbell Limited
A Member of the Hubbell Group of Companies
Oxford Street West
Ashton-under-Lyne
Lancashire
OL7 0NA
United Kingdom

Ex Component: **ZPL5** Range of Enclosures**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased Safety and Dust Protection by Enclosure**

Marking:

Ex eb IIC Gb
Ex tb IIIC Db

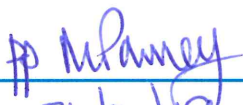
Approved for issue on behalf of the IECEX
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)


26/3/19

M POWNEY
Certification
Manager

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom





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Manufacturer: **Hawke International**
A Division of Hubbell Limited
A Member of the Hubbell Group of Companies
Oxford Street West
Ashton-under-Lyne
Lancashire
OL7 0NA
United Kingdom

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex Component covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The Ex Component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/BAS/ExTR13.0112/00	GB/BAS/ExTR15.0346/00	GB/BAS/ExTR16.0358/00
GB/BAS/ExTR17.0236/00	GB/BAS/ExTR17.0289/00	GB/BAS/ExTR18.0266/00

Quality Assessment Report:

[GB/BAS/QAR06.0061/07](#)



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Schedule

Ex Component(s) covered by this certificate is described below:

The ZPL511*, ZPL513 and PL520 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
ZPL520	200	138	95	IP66 & IPX7 Some material options are only IP66, see schedule of limitations

See Annex for full description.



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SCHEDULE OF LIMITATIONS:

1. 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 & Impact Risk Area	Ingress Protection 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

2. 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).

3. 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.



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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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 5.1

To confirm that the products covered by this certificate have been reviewed against the requirements of IEC 60079-0: 2017: Edition 7 and IEC 60079-7: 2015: Edition 5 in respect to the differences from IEC 60079-0: 2011: Edition 6 and IEC 60079-7: 2006: Edition 4, and that none of these differences in the standards affects this product except the marking with regard to Increased Safety Ex eb and the updates to the Accessories List to only show products to the latest standards.

ExTR: **GB/BAS/ExTR18.0266/00**

File Reference: **18/0484**

Annex:

[IECEX BAS 14.0120U-5 Annex 5.pdf](#)

Description of Component:

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.

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ANNEX to IECEx BAS 14.0120U/5

Issue No. 5

Date: 26 March 2019

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 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	IECEXBAS12.0065X Baseefa12ATEX0095X -60 °C to +75 °C	IP66/67
Hawke	Stopping Plug	387	IECEXBAS06.0029U Baseefa06ATEX0118U Nitrile o-ring: -60 °C to +80 °C Silicone o-ring: -60 °C to +160 °C	IP66/67
Hawke	Stopping Plug	390	IECEXBAS11.0079X Baseefa11ATEX0157X Nitrile o-ring: -60 °C to +80 °C Silicone o-ring: -60 °C to +160 °C	IP66
Hawke	Stopping Plug	487	IECEXBAS11.0071X Baseefa11ATEX0149X Nitrile o-ring: -60 °C to +80 °C Silicone o-ring: -60 °C to +150 °C	IP66/67
Hawke	Breather Drain	389 and 385	IECEXBAS11.0075X Baseefa11ATEX0153X Nitrile o-ring: -60 °C to +80 °C Silicone o-ring: 389: -60 °C to +150 °C 385: -60 °C to +80 °C	IP66
Hawke	Int/Ext Earth	IES10, IES6/12, ES6/12	IECEXBAS09.0013U Baseefa09ATEX0039U -60 °C to +200 °C	IP66

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