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 08.0090U

Issue No: 6

Status: **Current**

Page 1 of 4

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

Certificate history:
Issue No. 6 (2019-03-26)
Issue No. 5 (2017-02-14)
Issue No. 4 (2012-04-11)
Issue No. 3 (2011-03-25)
Issue No. 2 (2010-11-25)
Issue No. 1 (2009-12-18)
Issue No. 0 (2008-12-11)

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: **ZPL7** 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 Exe II**

Marking:

Ex eb IIC Gb Ex tb IIIC Db
Ex ib IIC Gb Ex ib IIIC Db
Ex ia IIC Ga Ex ia IIIC Da

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:
(for printed version)

pp MPowney
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.

Certificate issued by:

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

IECEx Certificate of Conformity

Certificate No:	IECEx BAS 08.0090U	Issue No: 6
Date of Issue:	**2019-03-26**	Page 2 of 4
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 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
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/ExTR08.0195/00
GB/BAS/ExTR09.0258/00
GB/BAS/ExTR10.0270/00
GB/BAS/ExTR11.0044/00
GB/BAS/ExTR12.0054/00
GB/BAS/ExTR12.0307/00
GB/BAS/ExTR16.0382/00
GB/BAS/ExTR18.0266/00

Quality Assessment Report:

GB/BAS/QAR06.0061/07

IECEx Certificate of Conformity

Certificate No: IECEx BAS 08.0090U Issue No: 6

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

Schedule

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

The ZPL7** Range of Empty Enclosures are square or rectangular enclosures moulded from glass reinforced polyester. The enclosures are available in the following sizes:

Enclosure	length (mm)	width (mm)	height (mm)
ZPL 712	120	120	84
ZPL 722	220	120	84

See annex for full description.

SCHEDULE OF LIMITATIONS:

1. The enclosures shall not be exposed to temperatures outside the range of:-

   With moulded-in earth continuity plate: -20°C to +75°C.
   Without moulded-in earth continuity plate: -60°C to +75°C.

2. The Ingress Protection rating of the enclosure is limited by the earth continuity plate option and gasket options as specified in the description above.

3. Unused entry holes shall be fitted with stopping plugs as specified in the description above. The operating temperature range and Ingress Protection rating of the enclosure is limited to that of the stopping plug fitted.

4. Only breather/drain devices as specified in the description above 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.

5. 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.

6. When the M6, M8 or M10 internal/external metallic earth stud complete with o-ring sealing arrangement is fitted in the ZPL7** enclosure the Ingress Protection rating is limited to IP66/67.

IECEx Certificate of Conformity

Certificate No:	IECEx BAS 08.0090U	Issue No: 6
Date of Issue:	**2019-03-26**	Page 4 of 4

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

Variation 6.1

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 08.0090U-6 Annex 4.pdf

SGS Baseefa Limited Rockhead Business Park Staden lane, Buxton, Derbyshire SK17 9RZ United Kingdom	
ANNEX to IECEx BAS 08.0090U/6 Issue No. 4	Date: 26 March 2019

Description:

The ZPL7** Range of Empty Enclosures are square or rectangular enclosures moulded from glass reinforced polyester. The enclosures are available in the following sizes:

Enclosure	length (mm)	width (mm)	height (mm)
ZPL 712	120	120	84
ZPL 722	220	120	84

The enclosures comprise of two parts. The base with moulded external mounting lugs at two corners and the removable cover secured by 4 screws retained in the cover by nylon washers or a special moulding in the lid. The cover fixings screw into moulded inserts at the corners of the body. The inserts may alternatively be clipped or glued in position where applicable.

The enclosures may be supplied with an integral/moulded-in brass or steel earth continuity plate in the base, or the enclosures may be supplied without an integral continuity plate.

If required, the enclosures without an integral continuity plate may be fitted with a brass or steel earth continuity plate system in either a flat metallic mounting plate or an earth continuity plate which is a cruciform shape with up to four folded up stands with punched holes 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 moulded-in inserts provided in the base.

The enclosure is fitted with a moulded clear silicone rubber gasket, silicone sponge o-ring gasket or hollow section silicone rubber o-ring 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.

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

The enclosure with the integral/moulded-in earth continuity plate or label fixing using a Nyloc screw system has an Ingress Protection rating of: IP66 - Any gasket.

The enclosure without the integral/moulded-in earth continuity plate has an Ingress Protection rating of:
IP66 - Moulded clear silicone rubber gasket or silicone sponge o-ring gasket
IP67 and IP68 at 3 metres for 3 hours – Hollow section silicone rubber o-ring gasket.

Brass or stainless steel inserts, or optional tapped holes in the integral/moulded-in earth continuity plate, are provided in the base for fixing internal components. Any of the sides of the enclosure, including the base and lid, may be drilled and tapped or drilled with clearance holes for cable entries. The maximum number, size and allowed location of these holes are defined on the relevant drawings listed below.

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 marking details may be embossed into the lid in a recess of up to 1mm depth.

The enclosure may additionally be fitted with an external/internal earth stud assembly covered by BASEEFA Certificate No. IECEx BAS09.0013U or internal/external earth stud to drawing 9462. The two external mounting feet on the body that has the integral /moulded in earth continuity plate fitted also provide a means of earth connection being connected via a metal bush linked through the wall to the base of the internal integral earth continuity plate.

The enclosures may be EMC coated with an electromagnetic interference shielding material. The coating is either nickel or silver and may be applied internally, externally or both and may include a decorative black polyurethane finish. Both materials are held in a polyurethane resin binder. This coating is carried out by Hawke International. When enclosures are externally EMC coated an internal/external earth stud assembly is always fitted.

The enclosures are normally black but may be produced in alternative colours by coating with an acrylic or epoxy (xylene solvent based) paint finish. The customer may paint the enclosure in accordance with procedures supplied by Hawke International.

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℃ to +75℃	IP66/67
Hawke	Stopping Plug	387	IECExBAS06.0029U Baseefa06ATEX0118U Nitrile o-ring: -60℃ to +80℃ Silicone o-ring: -60℃to +160℃	IP66/67
Hawke	Stopping Plug	390	IECExBAS11.0079X Baseefa11ATEX0157X Nitrile o-ring: -60℃ to +80℃ Silicone o-ring: -60℃to +160℃	IP66
Hawke	Stopping Plug	487	IECExBAS11.0071X Baseefa11ATEX0149X Nitrile o-ring: -60℃ to +80℃ Silicone o-ring: -60℃to +150℃	IP66/67
Hawke	Breather Drain	389 and 385	IECExBAS11.0075X Baseefa11ATEX0153X Nitrile o-ring: -60℃ to +80℃ Silicone o-ring: 389: -60℃to +150℃ 385: -60℃ to +80℃	IP66
Hawke	Int/Ext Earth	IES10, IES6/12, ES6/12	IECExBAS09.0013U Baseefa09ATEX0039U -60℃to +200℃	IP66

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

Alternative marking for all enclosures:

For commercial purposes, alternative Intrinsically Safe (I.S.) marking options are permitted

For Group II enclosures, the marking is as follows:
Ex ib IIC Gb
Ex ib IIIC Db
or
Ex ia IIC Ga
Ex ia IIIC Da