



# 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](http://www.iecex.com)

### Ex COMPONENT CERTIFICATE

Certificate No.: IECEx BAS 06.0027U

Issue No: 14

Certificate history:

Status: **Current**

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Issue No. 14 (2019-03-26)

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

Issue No. 13 (2018-01-24)

Applicant: **Hawke International**

A Division of Hubbell Ltd.

A member of the Hubbell Group of Companies

Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA

**United Kingdom**

Issue No. 12 (2017-07-14)

Issue No. 11 (2015-09-29)

Issue No. 10 (2014-07-22)

Issue No. 9 (2012-04-30)

Issue No. 8 (2012-04-11)

Issue No. 7 (2011-08-03)

Issue No. 6 (2011-03-25)

Issue No. 5 (2010-11-25)

Ex Component: **ZPL6\*\* 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, Dust Protection by Enclosure, Intrinsic Safety**

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)

M POWNEY  
Certification  
Manager

Date:

*M Powney*  
26/3/19

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





# IECEX Certificate of Conformity

Certificate No: IECEx BAS 06.0027U Issue No: 14

Date of Issue: **2019-03-26** Page 2 of 4

Manufacturer: **Hawke International**  
A Division of Hubbell Ltd.  
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:

<b>IEC 60079-0 : 2017</b> Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> 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:

<a href="#">GB/BAS/ExTR06.0032/00</a>	<a href="#">GB/BAS/ExTR07.0030/00</a>	<a href="#">GB/BAS/ExTR09.0075/00</a>
<a href="#">GB/BAS/ExTR09.0258/00</a>	<a href="#">GB/BAS/ExTR10.0155/00</a>	<a href="#">GB/BAS/ExTR10.0270/00</a>
<a href="#">GB/BAS/ExTR11.0044/00</a>	<a href="#">GB/BAS/ExTR11.0186/00</a>	<a href="#">GB/BAS/ExTR12.0054/00</a>
<a href="#">GB/BAS/ExTR12.0113/00</a>	<a href="#">GB/BAS/ExTR15.0221/00</a>	<a href="#">GB/BAS/ExTR17.0098/00</a>
<a href="#">GB/BAS/ExTR18.0008/00</a>	<a href="#">GB/BAS/ExTR18.0266/00</a>	

#### Quality Assessment Report:

[GB/BAS/QAR06.0016/08](#)



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## Schedule

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

The ZPL6\*\* Range of 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 612	120	120	74
ZPL 615	150	150	94
ZPL 620	200	200	127
ZPL 630	300	300	127
ZPL 626	260	160	106.5
ZPL642	400	250	120
ZPL644	400	405	165

The base of each enclosure has external mounting lugs at each corner and the removable cover is secured by 4 screws retained in the cover by nylon washers or a special moulding in the lid. These screw into moulded, clipped or glued inserts at the corners of the body.

Ingress protection of IP66 or IP67 is achieved by the use of a silicone O-ring 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. For further details and optional accessories, see the Annexe.

### SCHEDULE OF LIMITATIONS:

1. The enclosures shall not be exposed to temperatures outside the range -60°C to 75°C.
2. If a breathing and draining device is required, only component certified breather/drain devices as specified in the schedule 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 operating temperature range and Ingress Protection rating of the enclosure is limited to that of the breather/drain device fitted.
3. Any breathing and draining device must be installed in its correct orientation in the bottom face of the vertically mounted enclosure.
4. Unused entry holes shall be fitted with stopping plugs as specified in the schedule above, or 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.
5. The enclosure is limited to the temperature range of the stopping plug fitted.
6. The bulkhead fitting shall have a maximum projection length from the enclosure wall of 60mm. The user is responsible for ensuring that the service temperature range and IP rating of the enclosure are not compromised by installation of the bulkhead fitting.



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

### Variation 14.1

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
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### Annex:

[IECEX BAS 06.0027U-14 Annex 3.pdf](#)



**The ZPL6\*\* Range of 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 612	120	120	74
ZPL 615	150	150	94
ZPL 620	200	200	127
ZPL 630	300	300	127
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ZPL642	400	250	120
ZPL644	400	405	165

The enclosures comprise of two parts. The base with moulded external mounting lugs at each corner 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.

Ingress protection of at least IP66 and IP67 is achieved by the use of a silicone O-ring 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 or stainless steel inserts 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 is 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 all 5 enclosure sizes.

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 marking details may be embossed into the lid in a recess of up to 1mm depth on the ZPL612, ZPL615, ZPL620 and ZPL630 enclosures.

The enclosures may be fitted with either a flat metallic mounting plate or an earth continuity plate which is a cruciform shape with 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 moulded-in inserts provided in the base.

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 enclosures may be 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 °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.

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