

Assembly Instructions for: ZPL 5** Series Enclosures

HAWKE International



AI 261 / Issue L - 12/21

IMPORTANT: This document should be read carefully before commencing installation

Service Temperature

- ZPL 511 -60°C to +75°C Normal Impact Risk (IP66 & IP67)
- ZPL 513 -30°C to +75°C Low Impact Risk (IP66 & IP67)
- ZPL 513 -60°C to +75°C Normal Impact Risk (IP66 & IP67)
- ZPL 514 -60°C to +75°C Normal Impact Risk (IP66 & IP67)
- ZPL 520 -25°C to +75°C Low Impact Risk (IP66)

Minimum Installation Temperature: -5°C

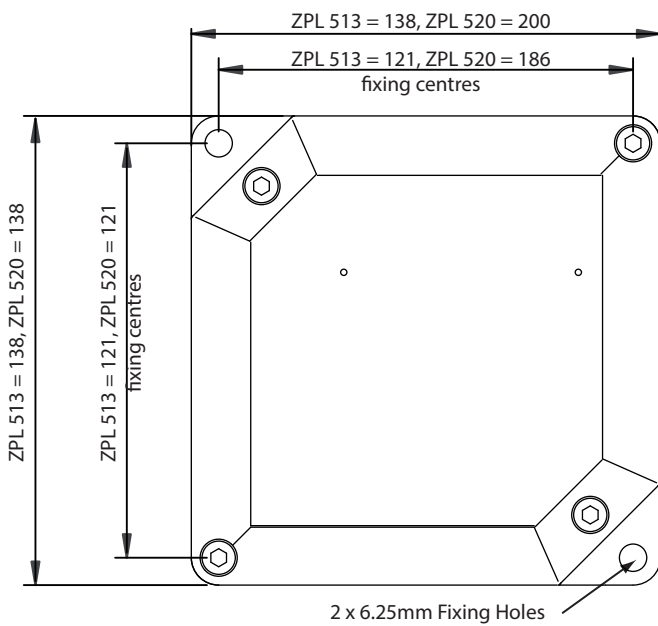
Certification Details

Box Type: ZPL5** Series II 2 GD IP66/67
 Ex eb IIC Gb Ex tb IIIC Db
 Baseefa14ATEX0248U
 BAS21UKEX0033U
 IECEx BAS14.0120U
 No EA3C RU C-GB.HA91.B.00260/21

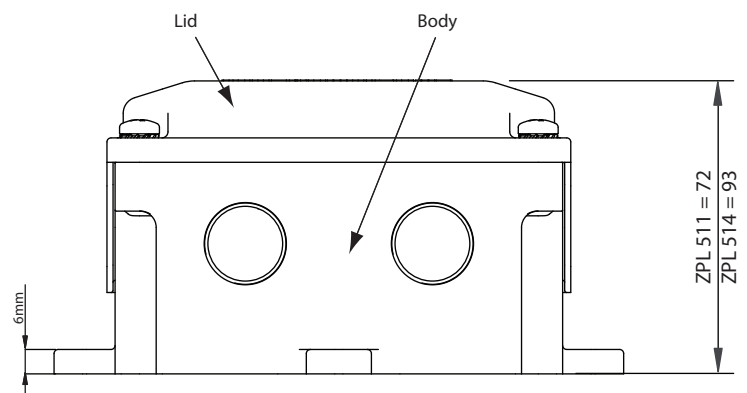
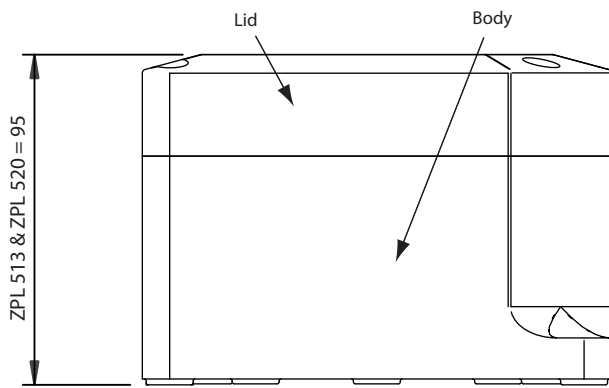
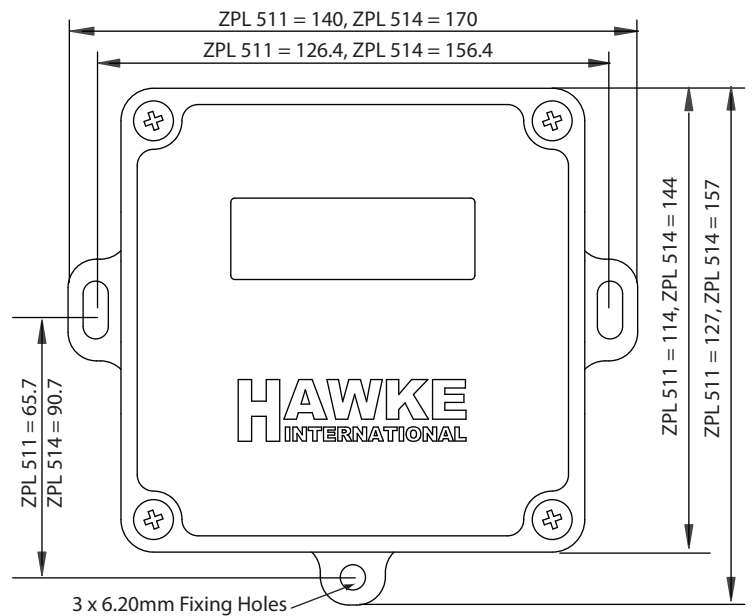
Component Certified Enclosure Only

Additional certification required when assembled with other electrical equipment.

ZPL 513 & ZPL 520



ZPL 511 & ZPL 514



(Dimensions in mm)

Drawings for illustration purposes only

Connection Solutions

www.ehawke.com

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- The enclosures shall not be exposed to temperatures outside the range of:
ZPL 511 -60°C to +75°C Normal Impact Risk
ZPL 513 -30°C to +75°C Low Impact Risk / -60°C to +75°C Normal Impact Risk
ZPL 514 -60°C to +75°C Normal Impact Risk
ZPL 520 -25°C to +75°C Low Impact Risk
- The Ingress Protection rating of the enclosure is limited by the earth stud / foot options and gaskets as shown below:
Enclosure with the earth stud / foot or with a label fixing using a Nyloc screw system has an Ingress Protection rating of IP66.
- When used as equipment, this enclosure 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.
- 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 or as per table overleaf.
- 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.
- 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.
- When the enclosure is fitted with the M6 or M8 brass or stainless steel internal/external earth stud, the Ingress Protection Rating is IP66.

EXTERNAL EFFECTS AND AGGRESSIVE SUBSTANCES:

The end user shall take into consideration for health and safety regulations when changing environmental conditions and in the presence of extraneous voltages, humidity, vibrations, contamination and other external effects, take into account the limits of the operating conditions established by Hawke International.

Equipment parts used must be appropriate to the intended mechanical and thermal stresses and capable of withstanding attack by existing or foreseeable aggressive substances.

The enclosures may be fitted with the following certified stopping plugs, int/ext earth studs and breather drain devices:				
Manufacturer	Product	Type	Certificate Number	IP Rating
Hawke	Stopping Plug	375	IECEX BAS 12.0065X / Baseefa12ATEX0095X / BAS21UKEX0053X Operating Temp. -60°C to +75°C	IP 66/67
Hawke	Stopping Plug	387	IECEX BAS 06.0029U / Baseefa06ATEX0118U / BAS21UKEX0051X Operating Temp: Nitrile O-Ring -60°C to +80°C Silicone O-Ring -60°C to +160°C	IP 66/67
Hawke	Stopping Plug	390	IECEX BAS 11.0079X / Baseefa11ATEX0157X / BAS21UKEX0052X Operating Temp: Nitrile O-Ring -60°C to +80°C Silicone O-Ring -60°C to +160°C	IP 66/67
Hawke	Internal/External Earth	IES10 IES 6/12 ES 6/12	IECEX BAS 09.0013U / Baseefa09ATEX0039U / BAS21UKEX0037U Operating Temp: -60°C to +200°C	IP 66
Hawke	Stopping Plug	487	IECEX BAS 11.0071X / Baseefa11ATEX0149X / BAS21UKEX0058X Operating Temp: Nitrile O-Ring -60°C to +80°C Silicone O-Ring -60°C to +160°C	IP 66
Hawke	Breather Drain	389	IECEX BAS 11.0075X / Baseefa11ATEX0153X / BAS21UKEX0043X Operating Temp: Nitrile O-Ring -60°C to +80°C Silicone O-Ring -60°C to +160°C	IP 66
Hawke	Breather Drain	385	IECEX BAS 11.0075X / Baseefa11ATEX0153X / BAS21UKEX0043X Operating Temp: -60°C to +80°C	IP 66

TO OPEN THE LID:

1. Disconnect power (isolate all circuits).
2. Untighten the lid securing screws.
3. Carefully remove the lid ensuring the gasket is not displaced or damaged.

TO CLOSE THE LID:

1. Check that the gasket is correctly located in the groove in the underside of the lid and undamaged. Ensure that the correct lid is refitted.
2. Locate and tighten all the lid securing screws into the box body.

EARTHING:

Junction Boxes shall be earthed in accordance with the relevant Code of Practice e.g. IEC / EN 60079-14.

ENCLOSURE INSTALLATION (EI)

- a) The IP rating of the enclosure must be maintained for the area of use (e.g. IP6* for Zone 21 dust environment) by the use of correct arrangement of cable/gland/sealing arrangements and in accordance with the installation codes as detailed in IEC/ EN 60079-14 and these installation instructions.
- b) The enclosure may be ready supplied with cable entries. Where the customer drills cable entries they must be installed in accordance with the component certificates and limitations, as these specify a maximum clearance on the entry thread of 0.7mm for plain holes and where adjacent cable entries are installed sufficient clearance must be maintained to allow for the fitting of sealing/retaining washers and the rotation of the cable gland hexagons, and leave a minimum of material between adjacent holes in line with the above certificate number(s).

NOTE:

The end user is responsible for ensuring the enclosure and gasket materials are suitable for the environment with regard to external effects and aggressive substances etc.

UK and EU Attestation of Conformity in accordance with European Directive 2014/34/EU and UK Statutory Instrument 2016/1107

Manufacturer: Hawke International, Oxford Street West, Ashton-under-Lyne, OL7 0NA, United Kingdom

Component: ZPL5 Series Enclosure

Provisions of the Directive fulfilled by the Equipment: Group II Category 2GD Ex eb IIC Gb, Ex tb IIIC Db – IP66/67

Harmonized Standards used: EN 60079-0:2018, EN60079-7:2015+A1:2018, EN60079-31:2014

Notified Body for EU-Type Examination: SGS Fimko 0598 Helsinki Finland

EU-type Examination Certificate: Baseefa14ATEX0248U

Notified Body for production: 0598

Approved Body for UK-Type Examination: SGS Baseefa 1180 Buxton UK

UK-type Examination Certificate: BAS21UKEX0033U

Approved Body for production: 1180

On behalf of the above named company, I declare that on the date the equipment, accompanied by this declaration, is placed on the market the equipment conforms with all technical and regulatory requirements of the above listed directives.



Andrew Reid
Technical Manager