

# Assembly Instructions for enclosures: ZPL 7\*\* Series



AI 286 / Issue J - 12/21

### Certification Details

Box Type: ZPL7\*\* Series  
 Ⓢ II 2G Ex eb IIC Gb, Ⓢ II 2D Extb IIIC Db IP66  
 Ⓢ II 2G Ex ib IIC Gb, Ⓢ II 2D Exib IIIC Db IP66  
 Ⓢ II 1G Ex ia IIC Ga, Ⓢ II 1D Exia IIIC Da IP66  
 BaseefaBAS08ATEX0271U  
 IECEx BAS08.0090U  
 BAS21 UKEX0035U  
 EAC Ⓢ No EA3C RU C-GB.HA91.B.00260/21

**IMPORTANT:** This document should be read carefully before commencing installation

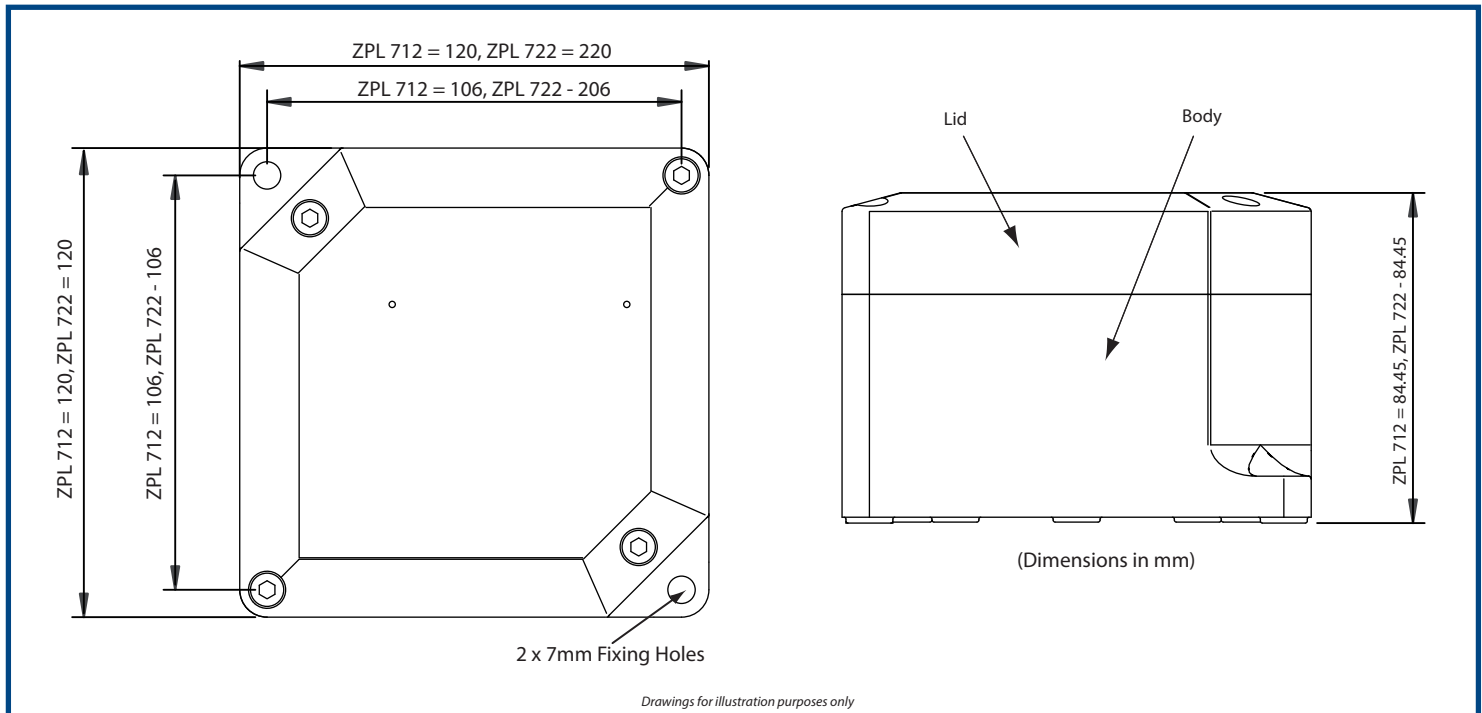
### Service Temperature

ZPL 7\*\* -20°C to +75°C with integral earth plate  
 ZPL 7\*\* -60°C to +75°C without integral earth plate

**Minimum Installation Temperature:** -5°C

## Component Certified Enclosure Only

**Additional certification required when assembled with other electrical equipment.**



### SCHEDULE OF LIMITATIONS:

- 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
- The Ingress Protection rating of the enclosure is limited by the earth continuity plate options and gaskets as shown below:  
 Enclosure with the integral/moulded-in earth continuity plate or with a label fixing using a Nyloc screw system has an Ingress Protection rating of IP66 - with any gasket type.  
 Enclosure without the integral/moulded-in earth continuity plate has an Ingress Protection rating of IP66.
- Unused cable entries must be fitted with the stopping plugs shown in the table overleaf and the operating temperature and Ingress Protection ratings of the enclosure is limited to that of the stopping plug fitted.
- Only breather / drain devices as specified in the table overleaf may be used with these enclosures. The breather / drain devices must be installed in their correct orientation in the bottom face of the enclosure. The operating temperature range of the enclosure is limited to that of the breather / drain device fitted.
- 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.**
- 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.

**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 / BAS21UKEX0051U 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

**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.

**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. EN 60079-14 and EN 60079-31.

**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, IEC / EN 60079-31 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 enclosure limitations, 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).

**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:** ZPL7 Enclosure Series

**Provisions of the Directive fulfilled by the Equipment:** Group II Category 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db IP66  
Group II Category 2G Ex ib IIC Gb, II 2D Ex ib IIIC Db IP66  
Group II Category 1G Ex ia IIC Ga, II 1D Ex ia IIC Da IP66

**Harmonized Standards used:** EN 60079-0:2018, EN60079-7:2015+A1:2018, EN60079-11:2012, EN60079-31:2014

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

**EU-type Examination Certificate:** Baseefa08ATEX0271U

**Notified Body for production:** 0598

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

**UK-type Examination Certificate:** BAS21UKEX0035U

**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  
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