Assembly Instructions for enclosure type:
ZEJB 1, ZEJB 2 & ZEJB 3
ZMEJB 1, ZMEJB 2 & ZMEJB 3

HAWKE International

AI 291 / Issue K - 12/21

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

Zones of Use for Terminal Box - as defined in IEC/EN 60079-0 and IEC/EN 60079-10-1
Group II Category 1G, for use in Zone 0 (plus Zone 1 and Zone 2).
Group II Category 1D, for use in Zone 20 (plus Zone 21 and Zone 22).
Group II Category 2G, for use in Zone 1 (plus Zone 2).
Group II Category 2D, for use in Zone 21 (plus Zone 22).

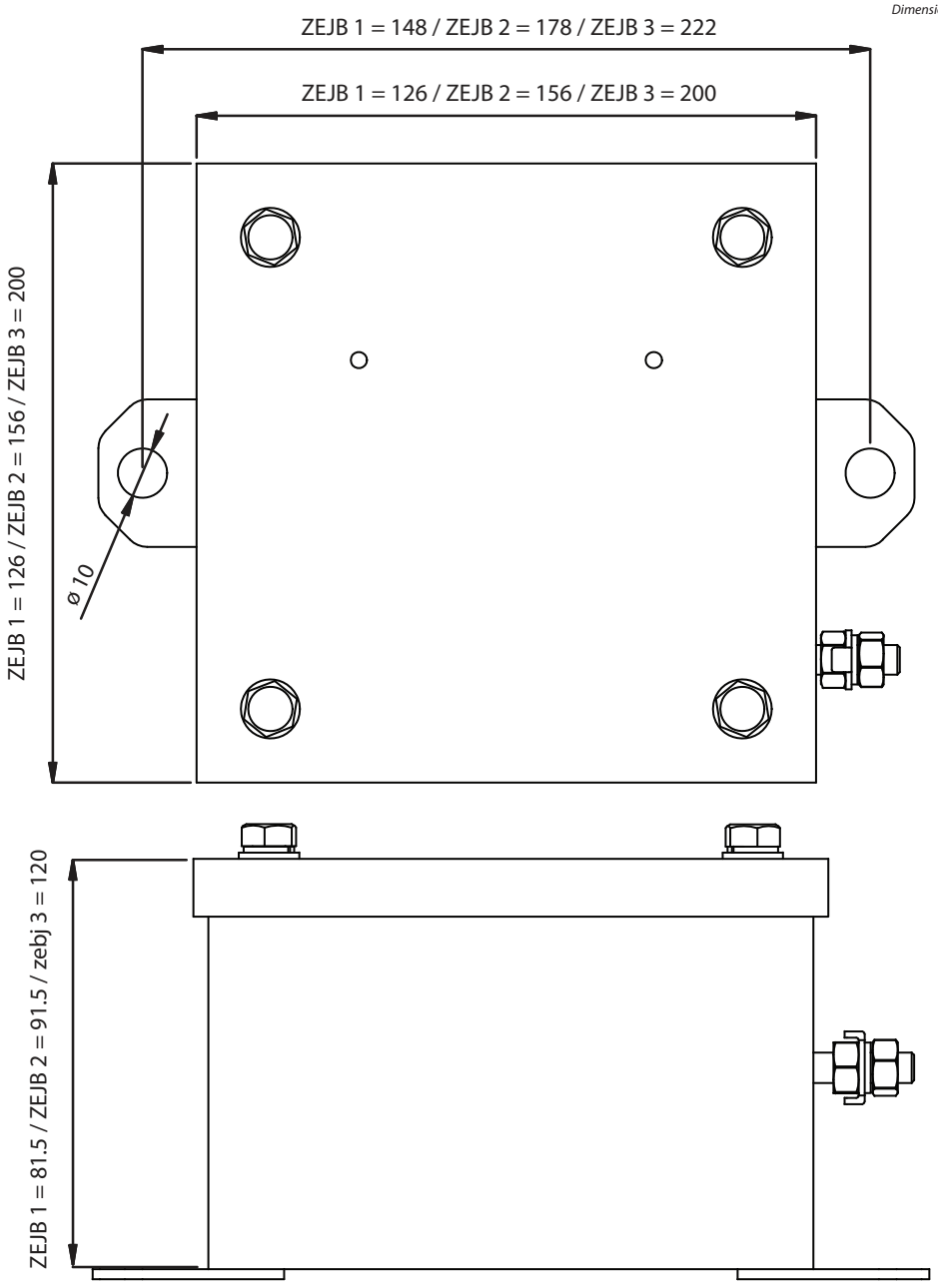
Service Temperature: -60°C to +80°C
Minimum Installation Temperature: -5°C

Certification Details

Box Type: ZEJB 1, ZEJB 2 & ZEJB 3 and ZMEJB 1, ZMEJB 2 & ZMEJB 3
Ⓔx II 2G Ex eb IIC Gb, Ⓔx II 2D Ex tb IIIC Db IP66
Ⓔx II 2G Ex ib IIC Gb, Ⓔx II 2D Ex ib IIIC Db IP66
Ⓔx II 1G Ex ia IIC Ga, Ⓔx II 1D Ex ia IIIC Da IP66
Baseefa08ATEX0207U / IECEx BAS08.0064U
BAS21UKEX0034U

Component Certified Enclosure Only
Additional certification required when assembled with other electrical equipment.

Dimensions shown apply to both Stainless Steel and Mild Steel



Drawings for illustration purposes only,

SCHEDULE OF LIMITATIONS:

1. The enclosures shall not be exposed to temperatures outside the range of -60°C to +80°C.
2. Unused entry holes shall be fitted with stopping plugs as specified in the description below. The operating temperature range of the enclosure is limited to that of the stopping plug fitted.
3. Only breather / drain devices as specified in the description below may be used with these enclosures. The breather / drain devices must be installed in their correct orientation in the bottom face gland plate of the enclosure. the operating temperature range of the enclosure is limited to that of the breather / drain device fitted.
4. Unused entries may be fitted with alternative stopping plugs and/or beather 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.

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 Operating Temp. -60°C to +75°C	IP 66/67
Hawke	Stopping Plug	387	IECEx BAS 06.0029U / Baseefa06ATEX0118U Operating Temp: Nitrile -60°C to +80°C Silicone -60°C to +160°C	IP 66/67
Hawke	Stopping Plug	390	IECEx BAS 11.0079X / Baseefa11ATEX0157X Operating Temp: Nitrile O-Ring -60°C to +80°C Silicone O-Ring -60°C to +160°C	IP 66
Hawke	Internal/External Earth	IES 10 IES 6/12 ES 6/12	IECEx BAS 09.0013U / Baseefa09ATEX0039U Operating Temp: -60°C to +200°C	IP 66
Hawke	Stopping Plug	487	IECEx BAS 11.0071X / Baseefa11ATEX0149X Operating Temp: Nitrile O-Ring -60°C to +80°C Silicone O-Ring -60°C to +160°C	IP 66/67
Hawke	Breather Drain	389	IECEx BAS 11.0075X / Baseefa11ATEX0153X 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 Operating Temp: -60°C to +80°C	IP 66

TO OPEN THE LID:

1. Untighten the M6 lid securing screws.
2. a) Carefully remove the lid ensuring that the gasket is not damaged.
   b) Ensure correct gasket is fitted for area of use.

TO CLOSE THE LID:

1. Check that the gasket is correctly secured to the underside of the lid and undamaged. If the lid has been removed, completely reverse the opening procedure 2, ensuring the correct lid is refitted.
2. Ensure that the wiring is not trapped or obstructing the sealing flange.
3. Locate and tighten all M6 lid securing screws into the box body.

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 temperatures 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 forseeable aggressive substances.

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 Baseefa 08ATEX0207U or IEC Ex BAS 08.0064U 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 inline with the above certificate number(s).
c) When a document pocket is fixed to the inside of the lid, care must be taken by installer / end-user to prevent static build-up i.e. plastic wallets must not be used to contain documents within the enclosure.

EARTHING:

a) Where there is a requirement for bonding of the gland plate, this can be achieved by the use of earthtags on the outside of the enclosure in conjunction with cable glands or by use of enclosure lids with factory fitted earth studs. In the case of painted boxes, consideration must be given to the removal of the paint. e.g. under a serrated washer on the inside of the box which may lead to corrosion of the enclosure and potential reduction in earthing protection. This area must be protected against corrosion following installation.

Note : *There is an integral connection from the internal earth connection through to the external of the box.*

EU Declaration 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
Equipment: ZEJB 1-3 / ZMEJB 1-3
Provisions of the Directive fulfilled by the Equipment: Group II Category 2GD Ex eb IIC T* Gb Ex tb IIIC T80°C Db – IP66
Group II Category 2GD Ex ib IIC T6 Gb Ex ib IIIC T80°C Db – IP66
Group II Category 1GD Ex ia IIC T6 Ga Ex ia IIIC T80°C Da – IP66

Harmonized Standards used: EN60079-0:2018, 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: Baseefa08ATEX0207U
Notified Body for production: 0598

Approved Body for UK-Type Examination: SGS Baseefa 1180 Buxton, UK
UK-type Examination Certificate: BAS21UKEX0034U
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