



# Technical Information

## Stainless Steel Size I to 9

### General

These enclosures are a stainless steel design that meet the requirements of EExe to EN50014 & EN50019.

The material qualities and electropolished finish provides a very high corrosion resistance.

### Application

These enclosures may be supplied with fitted terminals or as an empty component approved enclosure. If supplied as the latter, then final certification by the customer after fitting their own equipment must be obtained. In this case the prefix 'Z' is used ie. ZSIZE I.

### Specification

<b>Certification :</b>	Ⓔ II2 GD EExe II. (Ⓔ and ⒸⒶ options available).
<b>Zones of Use :</b>	Zone 1, Zone 2, Zone 21 & Zone 22.
<b>Temperature Class &amp; Ambients :</b>	T6 40°C as standard. Optional T5 with ambients up to 65°C.
<b>Operating Temperature Range :</b>	-40°C to +80°C.
<b>Degree of Protection :</b>	IP66 and Deluge proof to DTS01.
<b>Material :</b>	Stainless Steel.
<b>Finish :</b>	Electropolished.
<b>Impact Resistance :</b>	7Nm.
<b>Weatherproofing :</b>	By bonded silicone sponge lid and gland plate gaskets.
<b>Certification Label :</b>	Stainless Steel or optional certified self adhesive foil.
<b>Lid Fixing Screws :</b>	Stainless Steel (complete with nylon retaining washer).
<b>Additional Options :</b>	Breather/Drain devices. Epoxy paint finish for colour coding. EMI/RFI wire mesh on lid gasket for EMC requirements.
<b>Additional Labels :</b>	Stainless Steel or laminated plastic (traffolyte) for external use only or optional (certified) self adhesive foil for external and/or internal use.

### Earth Continuity

These enclosures have an integral internal/external earth stud assembly suitable for conductors up to 80mm<sup>2</sup>.

### Technical Notes

- To ensure that the maximum temperature as permitted by certification is not exceeded, the Dissipated Wattage Factor Formula is used :  $W = N \times F \times I^2$ . (See page 38 for enclosure wattage).
- It is not permitted to fit more than one conductor per side in rail or direct mounted terminals unless using an insulated Bootlace Ferule.
- Different quantities of terminals. Linked and mixed terminal arrangements other than is specified in the data tables are available but the voltage and current figures will be affected to ensure the maximum certified wattage factor is not exceeded. Please contact Hawke Technical Sales.
- When connecting a terminal with a conductor that is less than maximum size permitted for that terminal type, the maximum amps per pole must be reduced to suit. i.e. an RM10 (10mm)<sup>2</sup> terminal fitted with a 4mm<sup>2</sup> conductor will have the current rating reduced to that of the current rating permitted through the RM4 (4mm<sup>2</sup>) terminal.
- For Intrinsically Safe Applications, EExe power terminals can be supplied in blue on request. (Note: the enclosure will remain EExe certified).
- The enclosure is provided with an integral internal/external earth stud assembly, but when required, one or more rail mounted earth terminals may be fitted inside the enclosure but the quantity of power terminals shall be reduced accordingly. (Note: Power terminals may be used as 'clean earths').
- The enclosure has Metric clearance/plain entry holes as standard. Alternative clearance holes are available provided they are to a recognised standard eg. BSPP, ET etc. (Parallel threads only).  
Plain entry holes must maintain the following:
  - a) The plain hole shall be no larger than 0.7mm above the major diameter of the entry thread.
  - b) The gland or stopping plug is secured internally by a locknut, such that the gland or stopping plug will not be dislodged by a 7Nm impact.
  - c) The enclosure will be maintained at IP66 by a suitable sealing washer under the shoulder of the cable gland.  
(Note: Hawke does not recommend the use of cable glands with tapered threads in thin wall enclosures as the IP rating may be impaired).
- The customer may drill plain entry holes in the enclosure providing they are in accordance with the relevant code of practice and comply with the details shown in this catalogue.
- When mixed entries are accommodated on a face they must be in the positions shown in this catalogue for the largest gland entry on that face. For complex mixed entries contact Hawke Technical Sales.
- Entries into the enclosure must be via a suitable approved entry device.
- All unused entry holes must be fitted with a stopping plug as listed on the enclosures 'ATEX' certificate only. The stopping plug shall be held in place by a locknut.