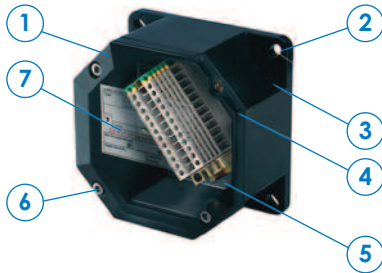


## PL Series Enclosures Technical Information



- ① Robust GRP construction designed to withstand impact resistance up to 20Nm for the PL6 range (7Nm for PL7 range). GRP construction provides a high degree of resistance to corrosive atmospheres.
- ② External mounting screw holes.
- ③ Anti-static properties. Removes the risk of ignition sources through static-induced sparking resistivity.
- ④ One-piece durable captive moulded silicone gasket, DTS01 deluge protection and to IP66/IP67. Optimum performance at low and high temperature extremes.
- ⑤ Optional earth continuity plate. Supplied in zinc-plated mild steel as standard, brass to special order.
- ⑥ Corrosion-resistant stainless steel lid fixing screws with nylon retaining washers.
- ⑦ Stainless steel ATEX rating label. Durable and corrosion resistant.

- ▶ 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 enclosure wattage factor).
- ▶ It is not permitted to fit more than one conductor per side in rail or direct mounted terminals unless using an insulated Bootlace Ferrule.
- ▶ Linked and mixed terminal arrangements other than those specified in the data tables are available, but the voltage and current figures may be affected to ensure the maximum certified wattage factor is not exceeded. Please contact our Sales Team for more information.
- ▶ 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 WDU10 (10mm<sup>2</sup>) terminal fitted with a 4.0mm<sup>2</sup> conductor will have the current rating reduced to that of the current rating permitted through the WDU4 (4.0mm<sup>2</sup>) terminal.
- ▶ For Intrinsically Safe Applications, Exe power terminals can be supplied in blue on request. (Note: the enclosure will remain Exe certified).
- ▶ An earth terminal must be fitted inside the enclosure. (Note: Power terminals may be used as 'clean earths').
- ▶ The enclosure has tapped metric entry threads as standard. Tapered threads are not permitted in plastic enclosures due to risk of stress cracking.
- ▶ The customer may drill and tap entry holes in the enclosure providing they are in accordance with the relevant code of practice and comply with the certification, contact our Sales Team for more information.
- ▶ When mixed entries are required on a face, please contact our Sales Team for more information.
- ▶ 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 enclosure certificate.

### Specification

PL6 Series Certification:	Ex II 2 GD Exe II ExtD.
PL7 Series Certification:	Ex II 2 GD Exe IIC Gb, Extb IIIC, Db.
Zones of Use:	Zone 1, Zone 2, Zone 21 & Zone 22.
Temperature Class & Ambients:	T6 40°C as standard. Optional T5 with ambients up to 65°C.
Operating Temperature Range:	60°C to +75°C.
PL6 Series Degree of Protection:	IP66, IP67 and Deluge proof to DTS01.
PL7 Series Degree of Protection:	IP66 and Deluge proof to DTS01.
Material:	Glass Reinforced Polyester. Flame Retardant to (IEC92.1 clause 2.38).
Finish:	Natural Black.
PL6 Series Impact Resistance:	Up to 20Nm.
PL7 Series Impact Resistance:	Up to 7Nm.
Weather-proofing:	By captive moulded clear silicone gasket.
Certification Label:	Stainless Steel or optional certified self adhesive foil.
Lid Fixing Screws:	Stainless Steel (complete with nylon retaining washer).
Additional Options:	Breather/Drain devices. Internal/external earth stud. Epoxy paint finish for colour coding. EMI/RFI coating for EMC requirements.
Additional Labels:	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 may be fitted with an earth continuity plate in plated mild steel as standard or optional brass when requested by the customer. (Note: A locknut is required on cable glands and metal stopping plugs to ensure earth continuity through the plate).