

INGROUND TRANSFORMER - IG SERIES

INSTALLATION INSTRUCTIONS

IPX7 CE AS/NZS 61558.2.6:2001



NOTE: THESE INSTRUCTIONS MUST NOT CONTRAVENE YOUR LOCAL ELECTRICAL AUTHORITY REGULATIONS, WITH WHICH ALL INSTALLATIONS HERE IN MUST COMPLY.

PLEASE KEEP INSTRUCTIONS FOR FUTURE REFERENCE.

WARNING: Do not carry the transformer by its cables as this will stretch the outer sheath of the cable thereby pulling it away from the sealing compound and causing water to leak into the transformer itself and consequently fail.

The warranty is VOID in this circumstance!!

Installation of the transformer must be carried out by a licenced electrician to meet all local Electrical Authority Regulations.

- 1) Check Local Electrical Authority regulations for trench depth and bury accordingly with appropriate cable protection.
- 2) A 240 volt water proof heat shrink joint should be made between the orange 240 volt cable and the supply cable using adhesive lined heat shrink sleeving.
- 3) A water tight rigid PVC conduit connection should be made to the 240 volt PVC conduit connection atop the transformer using PVC cement to seal all the joints. Using PVC cement will maintain a water tight seal.
- 4) If rigid PVC conduit is not being used i.e. the orange 240 volt cable is unprotected in the ground, then the adhesive lined heat shrink sleeving provided must be shrunk down over the end of the GREY conduits protruding from the top of the transformer onto the cables.

The Warranty is VOID if the adhesive lined heat shrink sleeving is not used.

- 5) It is recommended that the 240 volt conduit connection leading from the Inground Transformer be connected to a junction box on a post above ground.
- 6) All electrical connections made to the 12 volt output cable MUST BE waterproof.

DO NOT - Wire the low voltage side of the IG100, IG150, IG200 transformers in a series or parallel circuit - this may lead to internal damage.

DO NOT - Bury transformers just below the surface of the ground as this position is affected by day time temperature rises which may cause the internal thermal trip safety cutout to open circuit due to the temperature of the ground. Also do not cover with any insulating material. We recommend a minimum of 600mm below ground level (do not contravene Local Electrical Authority Standards regarding trench depth).

DO NOT - Install transformers or put cable joints under concrete or paving or where they are inaccessible.

DO NOT - Bury transformers in a vertical position - lay the transformer in the trench in a horizontal position - this will help maintain the transformers operating temperature.

DO NOT - Bury transformer in high water table area. Transformer is not suitable for water immersion.

RECOMMENDATIONS

- If mounting the transformer on a wall or fence etc. use a plastic pipe bracket and mount the transformer with the cables protruding from the bottom. Except IG150 or IG200 which must be buried.
- Avoid burying transformers in dry sand - dry sand is possibly the worst medium for conducting heat away from the transformers.
- Run all secondary cables in flexible conduit for added protection.
- Take particular care not to apply pressure to the cables protruding from the conduit entries as this may cause the water proofing membrane to tear.

