TransShield 24Volt PSU 4-Way

Item Part № XNNN00317
Operating & Installation Instructions
UNPACKING AND INSPECTION

- Carefully unpack the unit and retain packaging to return equipment for servicing.
- If the equipment appears damaged in any way, return it to sales outlet in its original packaging. No responsibility for damage arising from the use of non-approved packaging will be accepted.

Retain these instructions.

SAFETY SYMBOLS

The following symbols mean:

![Warning symbol]

Warning: read instructions to understand possible hazard

![Danger symbol]

Danger: Electrical shock hazard

Use only as specified by these instructions or the equipment's intrinsic protection may be impaired.

SAFETY WARNINGS

Always observe the following safety precautions:

- Only connect to an earthed supply. **THIS UNIT IS CLASS 1 CONSTRUCTION AND MUST BE EARTHED!**
- Connect only to a power source with a voltage corresponding to that on the rating plate.
- This equipment is for use indoors. NEVER use the equipment in damp or wet conditions.
- Avoid excessive heat, humidity and dust.
- Do not use where the equipment may be subjected to dripping or splashing liquids of any kind.

**Before replacing a fuse, DISCONNECT THE EQUIPMENT FROM THE MAINS SUPPLY.**
INSTALLATION

- All electrical work should be carried out by a competent person and meet the local wiring regulations.
- Only install either upright with the mains lead at the top on a wall or horizontally on a surface, with the base or either long side facing downwards.
- Ensure that the power supply (1) is secured to a suitable wall/surface able to bear the weight, using 4 off screws and appropriate wall mounting plugs. The keyhole mounting points can be used as a template.
- Ensure that ventilation holes are not blocked and if more than one 24V PSU is installed a minimum of 25mm gap is maintained between the mounting flanges.
- Ensure all cables are routed safely to avoid sharp bends and pinches.
- Ensure that only permitted cable types (and specified cable sizes) are used and that the low-voltage dc cables are routed separately from the mains supply.
- The mains should be wired to a local 3A FCU. If switched, the switch must disconnect both poles of the supply. It is essential that this unit is Earthed.
- The unit is supplied with 3 off 20mm cable glands to be fitted as standard. If required conduit may be used instead, installed using 20mm connectors and bushes.
- Mains supply connections must be made to the free terminals of (2) using 1.5mm² wire for the mains circuit, with correct insulation colours. (BS7676:2001 Brown – Live, Blue – Neutral, Yellow/Green – Earth)

- Use 1mm² minimum wire for each secondary circuit (Brown, Grey) connected to (4 – Positive) and (3 – Negative).
Ensure that primary and secondary wiring is routed apart. If it is necessary to run the circuits together, supplementary insulation should be applied to either circuit wiring.

**MAINTENANCE**

- Clean only with a damp cloth. Do not wet or allow moisture to penetrate the unit. Do not use solvents.
- Fuses must only be replaced with the type and rating as listed:
  
<table>
<thead>
<tr>
<th>Replacement fuses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1 - Mains:</td>
</tr>
<tr>
<td>T0.5A H 250V</td>
</tr>
<tr>
<td>F2 - Secondary:</td>
</tr>
<tr>
<td>F1A L 250V</td>
</tr>
<tr>
<td>F3 to F6 - 24Vdc output:</td>
</tr>
<tr>
<td>T0.25A L 250V</td>
</tr>
</tbody>
</table>

- If a replacement fuse fails immediately, contact your local service agent. DO NOT replace with a higher value.

**SERVICING**

- The only user-serviceable parts of this equipment are the fuses as specified and shown above. No other user-serviceable parts are contained within. Refer all repairs to qualified service personnel.
FAULT DIAGNOSIS

START

Unit has no 24V outputs

Is unit wired to mains supply?

Yes

Check for Mains supply
Test for 230V on Mains connector terminals

230V OK

Test for 230V on Mains connector terminals

230V Not present

Check F1 Mains input fuse
Test F1 T0.5A F 250V

Fuse Blown

Fuse OK

No

Connect to 230V supply

END

No

230V Not present

Check incoming supply

Check F3 to F6 24V output fuses

Test F3 to F6 T0.25A L 250V

Fuse Blown

Fuse OK

Check outgoing wiring for short circuits

If 24V output & fuse blown

Return unit to supplier

24V Output OK

END

No 24V output

Fuse blown

Check outgoing wiring for short circuits & replace fuses

If 24V not present & fuse blown

Return unit to supplier

END
TECHNICAL SPECIFICATION

- This equipment is for indoor use is safe within an ambient temperature range 5 to 40°C with maximum relative humidity of 80%.
- Equipment is for operation at installation category II (transient voltages) and pollution degree II in accordance with IEC 664 at altitudes up to 2000 metres.
- Size 180mm X 124mm X 92mm (L X W X H)
- Weight 1.3Kg
- Supply voltage range 230Vac +/-10%, 50/60Hz

Supply power rating

- Input 230V ac nominal (230Vac +/-10%) 50/60Hz
- Input power 55VA
- Output voltage 24Vdc nominal, unregulated
- Output current 0.25A per output

Interconnecting cable specifications

- 1mm$^2$ (minimum) to 2.5mm$^2$ (maximum) for 230V ac Mains input and 24V dc outputs.
Intentionally Blank