

LED Transfer Switching Unit Dual Output



Features

- ▶ Solid state electronics improve the life expectancy of the unit.
- ▶ High efficiency - low power drain from series circuit
- ▶ Individual switching of lamps powered from same source
- ▶ Galvanic isolation of both signal input circuits from each other, and from and between the power switching circuits.
- ▶ Fully encapsulated in chemically resistant potting compound improves reliability of the unit by protecting against acids, alkalis, oil and mishandling.
- ▶ H07RN flexible power and control cables with a heavy duty OFR (Oil resisting Flame Retardant) outer sheath.
- ▶ Operating temperature -20°C to +55°C. Relative humidity 0-100%.
- ▶ Protection to IP68.
- ▶ Switching power up to 85W
- ▶ Power consumption – maximum 3W per switch

Compliance with standards

- ▶ EMC EN6100-6-4:2007 & EN55011:2007 +A1:2007
- CE marked

Applications

The atg airports range of Transformer Switching Units (TSU) for LED fittings are solid state electronic switches, designed to switch individual AGL fittings and shunt the secondary winding of the series isolating transformer. They are used in airfield ground lighting circuits for taxiway guidance, stopbars, green centerline and other applicable circuits.

TSU/D/200/OFF/1, SLC 043103 - "FAIL OFF" type Dual TSU's shunt and turn off the lamp when no control signal is present. These are suitable for lead-on lights.

TSU/D/200/ON/1, SLC 043104 - "FAIL ON" type Dual TSU's shunt and turn off the lamp on application of the control signal. These are generally used for stop bars.

TSU/D/200/DF/1, SLC 043105 - "DUAL FUNCTION" type Dual TSU's. Circuit 1 is "FAIL OFF" and will shunt and turn off the lamp when no control signal is present (suitable for a lead-on circuit). Circuit 2 is "FAIL ON" and will shunt and turn off the lamp on application of the control signal (suitable for a stop bar circuit).

This is only a guideline for usage since the correct application depends on local circumstances and must be determined by the customer.

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Switching Unit
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Electrical Supply

- ▶ AC Switched Circuit: 2.8 – 6.6A RMS continuous
- ▶ Signal Switching Circuit - controlled by a nominal 24 to 50V DC control signal to switch the lamp (absolute maximum operating range to 16 to 60V)

Connections

- ▶ Control Cable Connection - 2 off 2.5mm² three core wired in parallel within the switching unit. Length: 500mm, Maximum OD: 14mm. The cables are not fitted with plugs or sockets, and require terminating. Cable colours are as follows:
 - Yellow / Green - Common
 - Blue - Output Circuit 1 Control
 - Brown - Output Circuit 2 Control
- ▶ Power Input Cable - moulded 2 pin plug (male) and coloured function label – Blue for fail to OFF, Red for fail to ON.
- ▶ Power Output Cable - Two output cables each with a moulded 2 pin socket (female) and suitable identification on either cable.

Weights & Dimensions

- ▶ 2.5kg
- ▶ 75mm x 100mm x 165mm with 0.5 metres of cable



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