GENERAL INFORMATION

1) A qualified electrician, in accordance with IEE wiring regulations should carry out connection to mains wiring.

2) Ensure that the rated voltage and frequency requirements are compatible with the available mains supply.

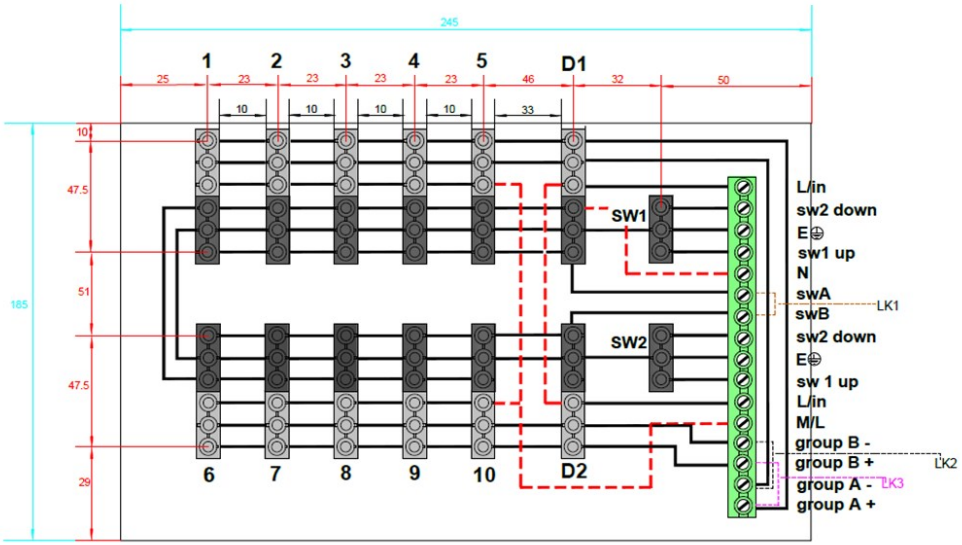
WARNING

1) Do not carry out high voltage insulation test, i.e. 500/1000v this may damage internal components.

2) Do not cross connect plugs, this may result in permanent damage to the TITAN BOX and any products connected to it.

3) Opening the main body of the TITAN BOX in any way other than via the service cover will invalidate the warranty.

TANBOXA WIRING DIAGRAM



TECHNICAL SUPPORT
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Whitecroft lighting

TITAN HUB

10 WAY CONNECTION CENTRE

TANBOXA

Installation Instructions

Sep 2017 - Rev2

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TANBOXA

The TANBOXA connection centre provides a simple way to integrate presence detectors and luminaires using industry standard connectors. Up to 2 detectors can be connected to up to 10 luminaires, dependant on the control philosophy required.

SPECIFICATION

OPERATING VOTAGE: 230V 50Hz (UK & Europe)

MAXIMUM LOAD PER OUTPUT: 6 Amps

MAXIMUM TOTAL LOAD: 12 Amps

SUPPLY TERMINAL CAPACITY: 4.00mm² (2x1.50mm²)

DIMMING TERMINAL CAPACITY : 4.00mm² (2x1.50mm²)

CASE MATERIAL: POLYCARBONATE V0

CASE FINISH: LIGHTLY SPARKED, BLACK.

INSTALLATION INSTRUCTIONS

The TANBOXA should only be sited internally - not suitable for exterior applications. Fix on a flat, smooth surface using the 2no fixing flanges located at the end of the TANBOXA and the 2no fixing holes located in the wiring chamber.

The use of rod suspension is not advised although this can be done as long as the fixing is substantial enough to withstand the action of plugging and unplugging the connectors without damage to the TANBOXA.

IMPORTANT NOTES

Dimming control connections are mains rated.

The Titan Hub is a single phase unit only and must not be used with multiphase connections.

LEADS (For use with Evo type detection)

TANCFLH63P—Detector lead assembly for fixed output & Switching 6pole non locking male connector and 3m lead

TANCFLY63P -Detector lead assembly for dimming 6pole non locking male connector and 3m lead

TANCFLHY63P - Detector lead assembly for dimming and for fixed output & Switching 6pole non locking male connector and 3m lead

DIMENSIONS & FIXING HOLES CENTRES

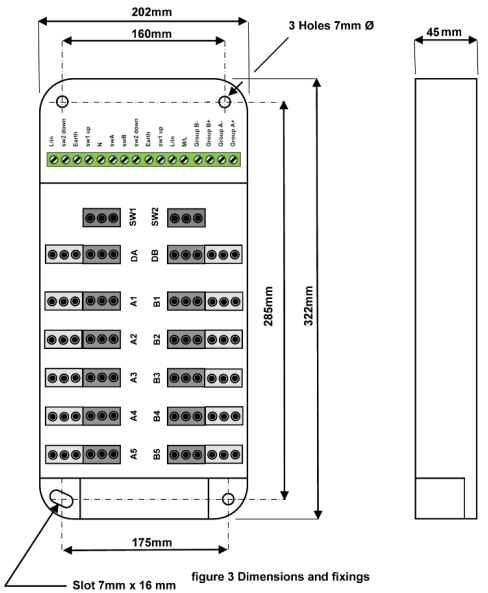


figure 3 Dimensions and fixings

ELECTRICAL CONNECTIONS — WARNING 230V ac.

The connections of this equipment should only be carried out by a suitably qualified person in accordance with the current wiring regulations and any other statutory regulations that are applicable for the installation.

Appropriate means of supply disconnection and overcurrent protection should be provided by the installation contractor.

The cover of the wiring chamber is removed by inserting the blade of a flat screwdriver into the catch and applying light pressure on the handle towards the output connectors on the TANBOXA while lifting the outside edge of the cover.

The cable entries for 20mm conduit, bushes or glands are semi-pierced these can be re-moved with a 20mm hole saw.

A cable gland must be used to provide a strain relief if the cabling is not routed into the TANBOXA via conduit or trunking.

Screw terminations are provided within the wiring chamber underneath the cover for power supply connections and external dimming applications.

Luminaires and detectors are plugged directly into the appropriate 3 & 6 pole sockets.

Please ensure that all plugs are fully engaged.

FACTORY CONFIGURATION

When the unit is supplied from the factory, the dimming control and switch lives are linked in the terminations in the wiring aperture. LK2 and LK3 MUST be removed if the two detectors with dimming outputs are connected to the Hub.

Connections are made to the terminal strip connectors as highlighted in the figure 1. There are 2no live input terminals which are internally linked.

Live in is routed to the 2no detector inputs (DA and DB) only.

Maintained Live (ML) is routed to the 10 Luminaires outputs. If no separate maintained live is required a link will need to be fitted between M/L and L/In terminal.

SWA is the switched live output from a detector connected to DA.

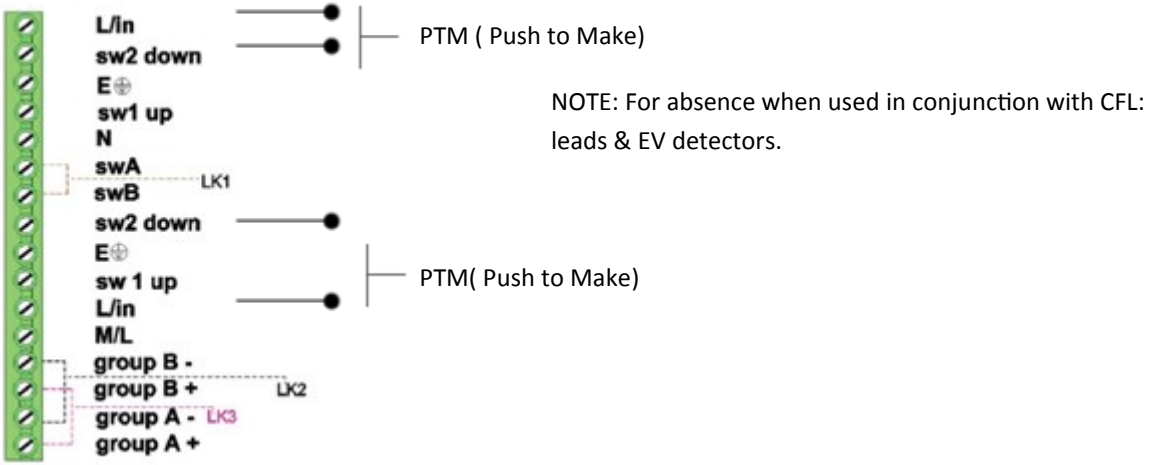
SWB is the switched live output from a detector to DB.

LK1 is the link connection between the switched live from each detector output. It must be removed to split the luminaires into 2 groups.

The dimming control signal from each detector to its group of luminaires is via PIR outputs (DA or DB). Alternatively connections can be made via the dimming channel screw termination in the wiring aperture (A + A- or B+ B-) links are factory fitted to allow for a single channel dimming (all outputs off 1 dimming detector). If 2no dimming detectors are to be connected to the HUB LK2 and LK3 need to be removed.

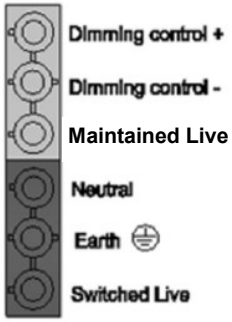
If the hub is to be used for power distribution the luminaire switch live is connected to swA or swB with LK1 Linking in place.

Fig 1



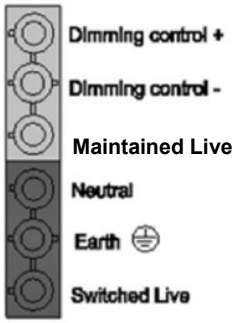
NOTE: For absence when used in conjunction with CFL: leads & EV detectors.

DETECTOR CONNECTION



There are 2 detector connections on each box. The detector is connected by a pre-wired lead and GST18/6 Black/Grey male none locking plugs.

LUMINAIRE CONNECTION



There are 10 luminaire outputs on each box. The luminaires are connected by a pre-wired lead. GST 18/6 Black/Grey male none locking plugs.