

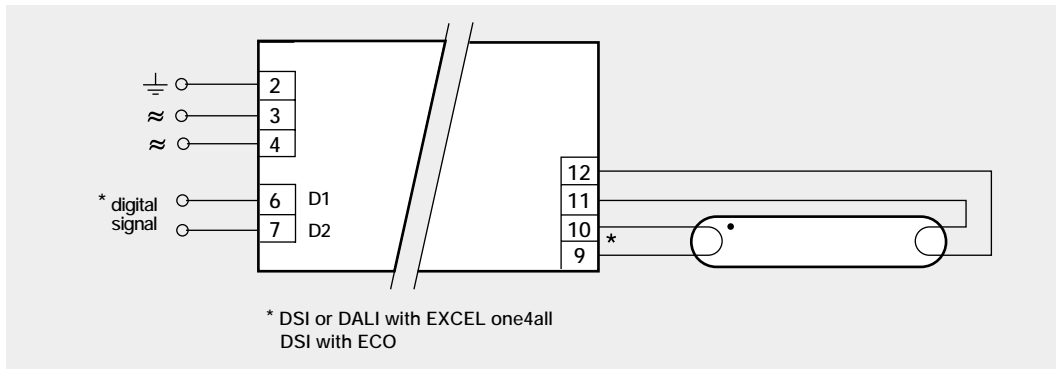
switchDIM

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2 General Information

In addition to DSI digital control, Tridonic digital dimming ballasts PCA EXCEL one4all and PCA ECO can also be controlled without a digital device.



(Control by digital signal)

Connecting live and neutral to the control terminals D1 and D2 via a push to make switch (momentary switch) offers the possibility to control the dimming level and the on/off function without any digital devices. With a short push you switch on and off. If you push and hold it is possible to dim the lamp throughout the full dimming range of the ballasts (1 or 3% up to 100%).

3 Technical data

- Maximum length of the control wires: unlimited due to 230/240V potential
- Unlimited number of push to make switches (momentary switches)
- Maximum numbers of ballast: theoretically unlimited because no power or load is being controlled but due to the possibility of asynchronous function we recommend the number of ballasts connected to the switch does not exceed 25 pieces.

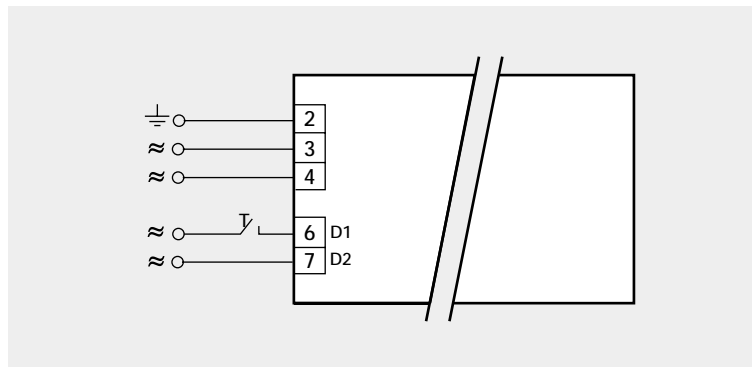
4 Synchronisation

- In the case of a new installation or new ballast installed into an existing installation it is possible that not all ballasts will be synchronous. In operation some ballasts will be switched off whilst others are switched on and the dimmed levels of the ballasts may not be the same. With a push on the switch longer than 10 seconds all ballasts will synchronise at a 50% light level and have the same point of departure for dimming. This process can be applied at any time during normal operation if any individual is unsynchronised.

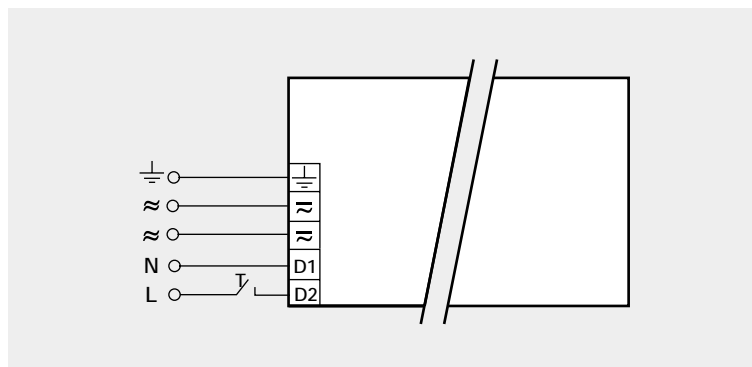
5 Wiring instruction in a 5-pole installation

The best solution in the installation is to use a 5 pole arrangement. This enables either DSI or DALI control inputs to be connected without the need for any additional control wires and/or alteration to the luminaires.

With PCA ECO/Excel one4all ballasts in plastic compact housings and due to the proximity of the terminals and the possibility of 2 separate phases being connected to the same ballast (L1 supply & L2 switched live), we recommend that the neutral is connected to the D1 terminal thus ensuring sufficient separation of the permanent live and switched live irrespective of which phase terminal the permanent live is connected to. Where the switched live is taken from a dissimilar phase to the permanent supply there is a risk that a potential of 400V is across neighbouring terminals thus this separation is essential.



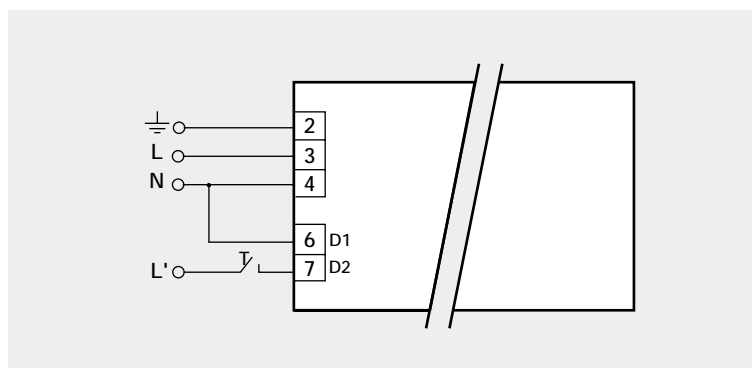
(five pole installation for slimline housing)



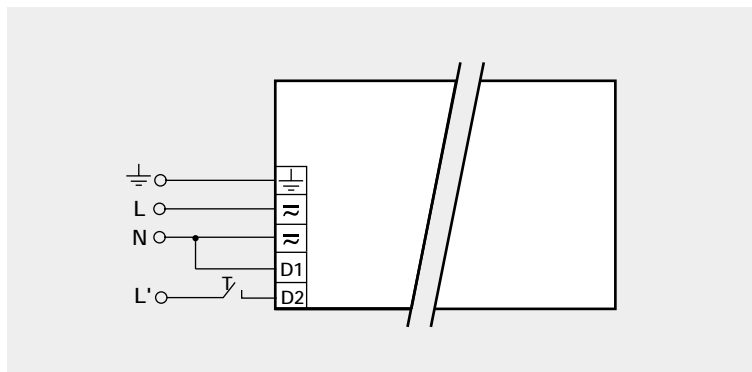
(five pole installation for compact housing)

6 Wiring instructions in a 4-pole installation

In a 4-pole installation with PCA ECO/Excel one4all Slimline ballasts, we recommend that the neutral is connected to D1 at Terminal 6 and for PCA ECO/Excel one4all ballasts in plastic compact housings neutral should be connected to the D1 terminal. In both cases this type of connection will ensure that a potential of 400V is never across neighbouring terminals.

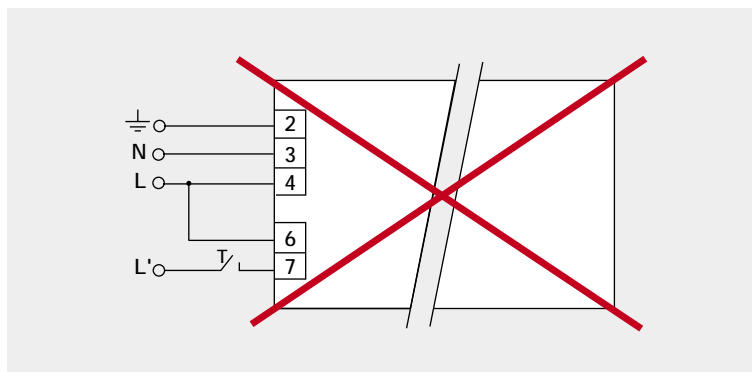


(four pole installation for slimline housing)

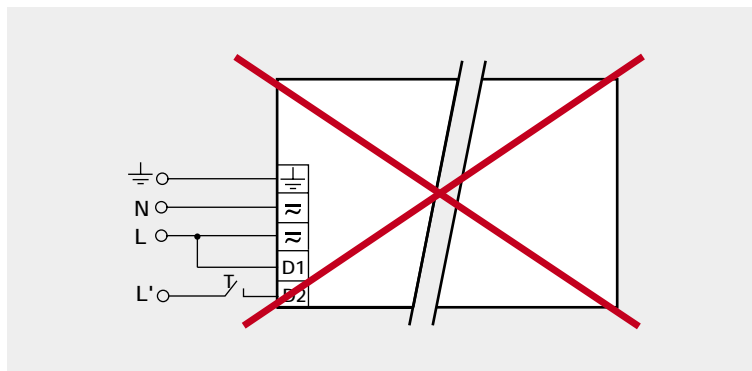


(four pole installation for compact housing)

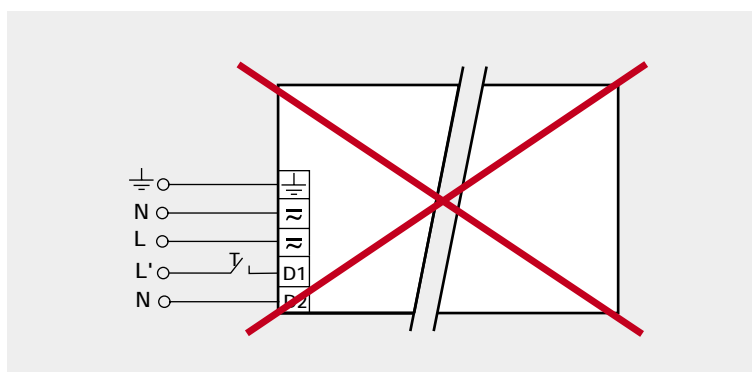
7 Inadmissible circuit diagrams



(wiring failure for slimline housing)



(wiring failure for compact housing)



(wiring failure for compact housing)

8 Wiring schematic

