

# DPMI940-DALI

## DALI Auxiliary Input Interface Installation Manual



**WARNING:** Do not connect DALI or Dry contact wires to mains. Dry contact & DALI wires are **NOT SELV** and should never be considered touch safe. Basic insulation or higher is required between DALI / dry contact wires and mains cabling.

### features

- **4 x Dry Contact Inputs** – Presented on a 2.5mm pitch 165mm long fly leads.
- **Powered from the DALI Network** – No need for an external power supply.
- **DALI network** – Different DALI network devices can be connected in any order along the network. The DPMI940-DALI does not need to be directly connected to the lighting groups that is controlling
- **Simple Installation** - Compact enclosure allows the device to be conveniently placed near the device to be controlled. All connections are accessible without disassembly

### important notes:

**Read Instructions** – We recommend that you read this Instruction Manual prior to commencement of installation.

**Special Programming** – This device will only operate in basic modes unless programmed via a computer. Device is to be commissioned using Envision software.

**DALI bus ready** – This device can only be used in junction with a Philips Dynalite multi master controller such as the DDBC120-DALI. DALI is a polarity free communication protocol.

**Installation Location** – Install in a dry location, close to the equipment to be interfaced with.

**Dry contact wires:** Maximum recommended length of dry connector wires is 1 meter. Wires should be kept away from any mains cables. Inputs must not be connected to any voltage source, only voltage free dry contacts should be used

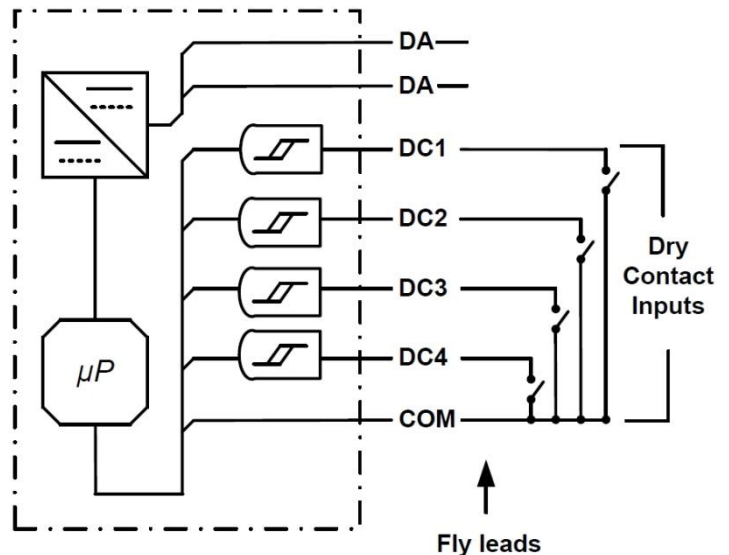
**DALI should be handled/considered as mains, so use mains rated cables for all DALI wiring**

## Connecting volt free inputs

### Flying Lead inputs

wire	Function	Colour
1	COM	Purple
2	DC1	GREY
3	DC2	GREY
4	DC3	GREY
5	DC4	GREY
6	DA	ORANGE
7	DA	ORANGE

## Electrical diagram



## Installation steps

Power down & Isolate DALI bus prior to wiring the device

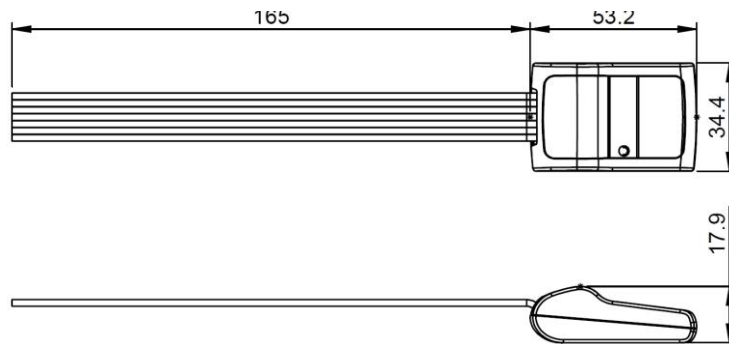
### Switch plate mounting

1. Select a dry location for device and ensure that there is enough physical room for device and switches without applying excessive pressure on wall plate.
2. If mounting behind switch plate ensure that all wires are not damaged and device is isolated from any mains wires that may be present.
3. Connect grey input wires into each dry contact switch and use the purple common wire to loop into the other side of switches contacts. Dry contact input wires must not exceed 1 meter.
4. Connect DALI network to orange wires. DALI is a polarity free communication protocol.
5. Ensure that after mounting none of the bare wires are exposed.

### 3<sup>rd</sup> party integration

1. Select a dry location for device and ensure there is enough physical room for the device if mounted inside a housing
2. Connect grey input wires into the volt free dry contact out of the 3<sup>rd</sup> part device (BMS, security, reed switch) and use purple common wire as a loop into the other side of volt free outputs.
3. Ensure that the whole installation is touch safe.

## mounting details



## product specifications

<b>DALI Serial Port:</b>	1 x DALI port 2 x Fly leads (2 x Orange wires) Polarity insensitive.
<b>Dry Contact Inputs:</b>	4 x Dry contact inputs (Inputs = 4 x Grey wires Common = 1 x purple wire)
<b>User interface controls</b>	User service switch for DALI address sign on.
<b>Internal Controls:</b>	Programmable Logic Controller
<b>Operating Environment:</b>	0° to 50°C ambient temperature, 0% to 95% RH non condensing
<b>DALI Power Consumption:</b>	9mA Max @ 9.5 – 22.5 VDC
<b>Compliance:</b>	CE, C-Tick
<b>Construction:</b>	ABS Housing
<b>Body Dimensions:</b>	H 17.9mm x W 34.4mm x D 53.2mm
<b>Fly leads length</b>	165mm
<b>Weight:</b>	50 grams

## Warranty policy:

Dynalite warrant to the original purchaser for a period of twenty four (24) months from the date of shipment ex-factory of the equipment that should the equipment prove defective by reason of improper workmanship or material, Dynalite will repair or replace the same without charge provided the equipment has not been improperly installed, operated, repaired, damaged or abused. The warranty granted herein is limited to repair or replacement only. Dynalite has the right to substitute any warranty item not on the current price/equipment list. As far as the law permits, Dynalite shall not be liable for any loss or damage caused to property or persons arising from any cause whatsoever. This warranty is subject to the return of the equipment to Dynalite, or the Dynalite authorised distributor who supplied the equipment (the 'Supplier'), by prepaid freight within the twenty four (24) months warranty period. Where Dynalite, or the Supplier, agree to a site visit during the warranty period and it is found to be an operational problem, and not subject to warranty in that event, then a field service call out charge will apply. Contact Dynalite or the Supplier for details.