

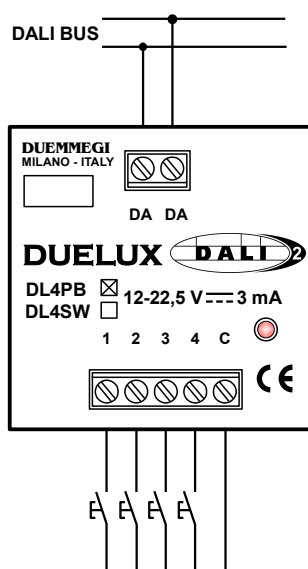
## DL4PB: 4-input DALI-2 interface module for push buttons

DL4PB module allows to interface 4 push buttons to DALI-2 bus.

Features:

- powered by DALI bus (no aux power supply is needed)
- current consumption < 3mA (1.5 DALI device)
- 4 inputs for potential free buttons
- automatic polarity on the connection to the DALI bus
- 1 DALI address
- red LED for device identification
- DALI-2 certified
- compliant to IEC 62386-101, -103, -301

### Connection diagram



Connect 4 push buttons to terminals 1-2-3-4; terminal C is the common. The push buttons must be normally open type (open circuit when not pressed).

For the connection between DL4PB and buttons, use cables with a section of 0.50÷0.75mm<sup>2</sup> and follow the recommendations below:

- For distances between the module and buttons less than 0.50m, single-core cables can be used
- For greater distances, use multi-core cables, up to a maximum of 20m in total (in other words the sum of the lengths of all the multi-core connection cables) and lay the cables in dedicated conduits where there are no dangerous voltages

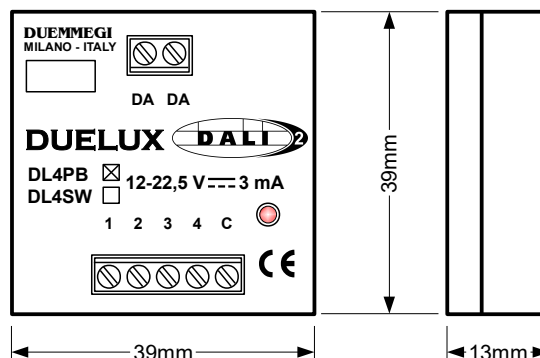
Shielded cables are not necessary for the connection between DL4PB and buttons.



### Technical characteristics

Power supply	By DALI bus, 12 ÷ 22.5V ---
Current consumption	3.0mA MAX
Number of inputs	4, for potential free push buttons
Recommended length for button connection cables	-MAX 20m total (that is the sum of the lengths of all the multi-core connection cables) using 0.50÷0.75mm <sup>2</sup> multi-core cables, laid in dedicated conduits (see also paragraph Connection Diagram) -MAX 0.5m with single-core cables 0.50÷0.75mm <sup>2</sup>
Number of DALI addresses	1
Start-up time	250ms MAX
DALI-2 compliant according to	IEC 62386-101 IEC 62386-103 IEC 62386-301
Operating temperature	-5 ÷ +50 °C
Storage temperature	-20 ÷ +70 °C
IP rating	IP20

### Dimensions



### Connection examples

The following figures show allowed and disallowed connections.



**Correct disposal of this product**



(Waste Electrical & Electronic Equipment) (Applicable in the European Union and other European countries with separate collection systems). This marking on the product, accessories or literature indicates that the product should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

**Installation and use restrictions**

**Standards and regulations**

The design and the setting up of electrical systems must be performed according to the relevant standards, guidelines, specifications and regulations of the relevant country. The installation, configuration and programming of the devices must be carried out by trained personnel.

The installation and the wiring of the bus line and the related devices must be performed according to the recommendations of the manufacturers (reported on the specific data sheet of the product) and according to the applicable standards.

All the relevant safety regulations, e.g. accident prevention regulations, law on technical work equipment, must also be observed.

**Safety instructions**

Protect the unit against moisture, dirt and any kind of damage during transport, storage and operation. Do not operate the unit outside the specified technical data.

Never open the housing. If not otherwise specified, install in closed housing (e.g. distribution cabinet). Earth the unit at the terminals provided, if existing, for this purpose. Do not obstruct cooling of the units. Keep out of the reach of children.

**Setting up**

The physical address assignment and the setting of parameters (if any) must be performed by the specific softwares provided together the device or by the specific programmer. For the first installation of the device proceed according to the following guidelines:

- Check that any voltage supplying the plant has been removed
- Assign the address to module (if any)
- Install and wire the device according to the schematic diagrams on the specific data sheet of the product
- Only then switch on the 230Vac supplying the bus power supply and the other related circuits

**Applied standards**

This device complies with the essential requirements of the following standards and directives:

- IEC 62386-101, IEC 62386-103, IEC 62386-301
- 2014/30/UE (EMC)
- 2014/35/UE (Low Voltage)
- 2011/65/UE (RoHS)

**Note**

Technical characteristics and this data sheet are subject to change without notice.