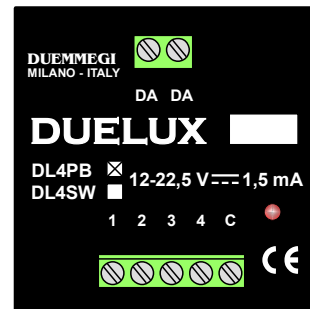


DL4PB: 4-input DALI-2 interface module for push buttons

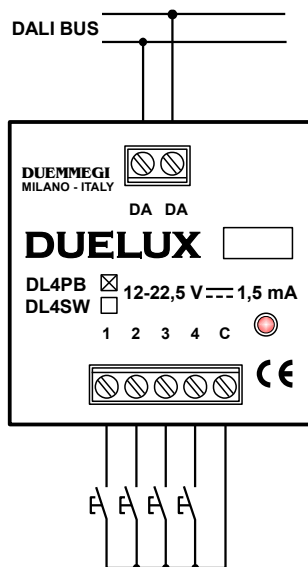
DL4PB module allows to interface 4 push buttons to DALI-2 bus.

Features:

- 4 inputs for potential free buttons
- current consumption < 2mA (1 DALI device)
- automatic polarity on the connection to the DALI bus
- 1 DALI address
- red LED for device identification



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).

Recommendations regarding cables for connection between DL4PB and buttons:

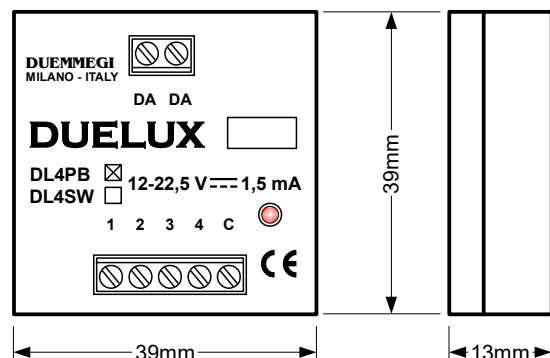
- For distances between module and buttons of less than 0.50m, unipolar cables with a section of 0.50÷0.75mm² can be used
- For distances greater than 0.50m and in any case up to a maximum of 20m, use multipolar cables (the number of poles depends on how many buttons are to be connected away from the module) with a section of 0.50÷0.75mm² and lay the cables in dedicated conduits where dangerous voltages are not present

Generally, shielded cables are not required for the connection between DL4PB and buttons.

Technical characteristics

Power supply	By DALI bus, 12 ÷ 22.5V ~
Current consumption	1.5mA TYP, 2.0mA MAX
Number of inputs	4, for potential free push buttons
Recommended length for button connection cables	-MAX 20m using 0.50÷0.75mm ² multipolar cables, laid in dedicated conduits (see also paragraph Connection Diagram) -MAX 0.5m with unipolar cables 0.50÷0.75mm ²
Number of DALI addresses	1
Parameter's saving time	250ms MAX
Operating temperature	-5 ÷ +50 °C
Storage temperature	-20 ÷ +70 °C
IP rating	IP20

Dimensions



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 re-use 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 directives:

- 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.