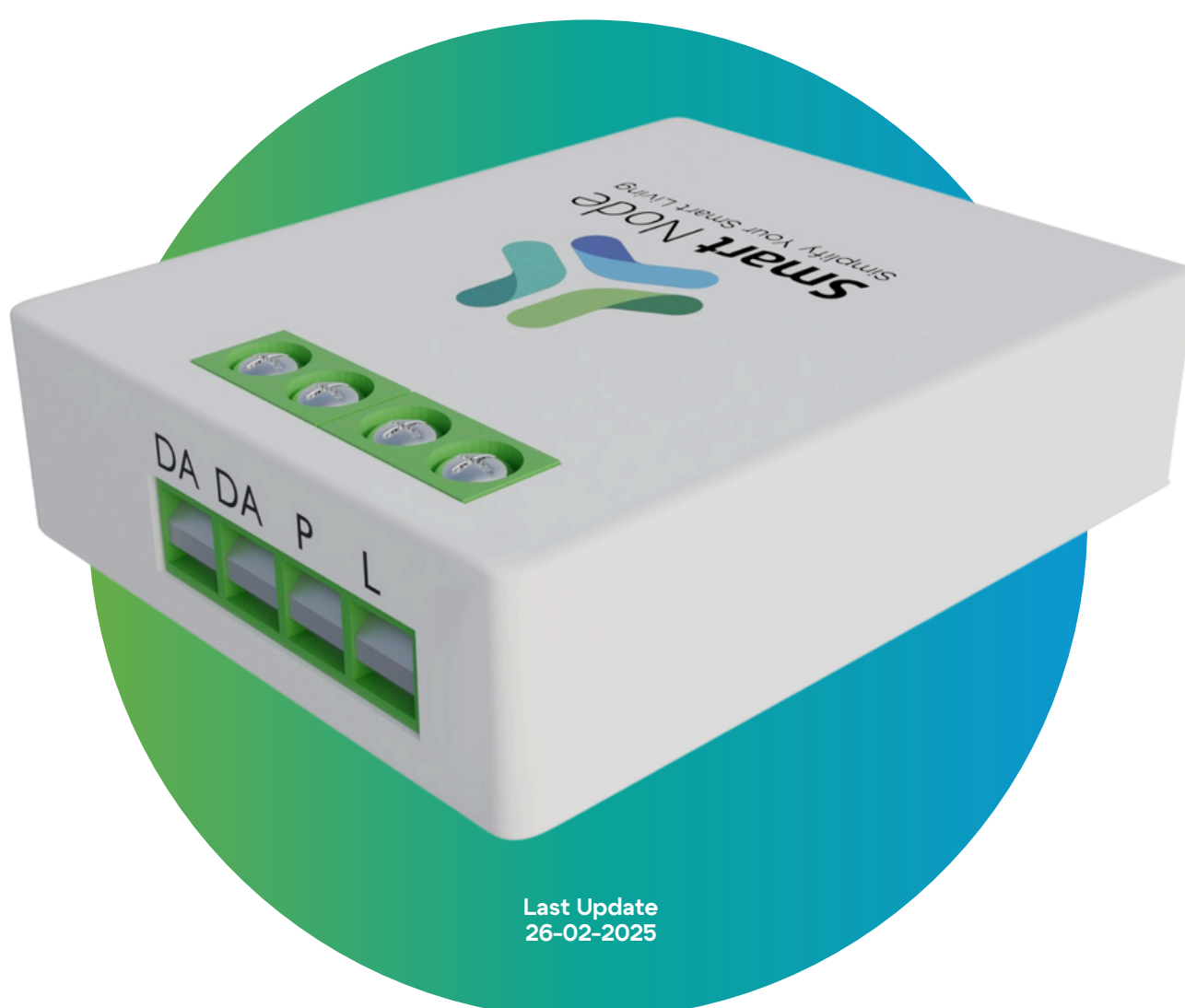




# Smart Node

Simplify Your Smart Living



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## Datasheet DALI Relay Module DRM.1

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Smart Node Automation



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## Product Info

**Product Name:** DALI Relay Module

**Model Number:** DRM.1

**Description:** The DALI Relay Module allows you to connect non-DALI devices(which do not have DALI input) to DALI Bus. It will acts as a bridge between the DALI controller and non-DALI devices, allowing easy control of high power-devices and energy-efficient automation.

**Application :** Lighting control (ON/OFF switching), integration with building management system, scene control, emergency lighting control, regular household appliances.

## Features

- Compatible with DALI-2 version.
- Compliant with DALI standard IEC 62386-208(Device Type 7-Switching Function).
- Can switch both AC and DC Loads.
- Provides ON/OFF state feedback to the DALI controller.
- Configurable relay positions(ON/OFF) in case of DALI line outage.
- Safety Feature - Relay State for Fault Conditions:

**1.Power loss on DALI bus:** DALI Relay will set a switch to a state(ON/OFF) as defined in the "System Failure Level" configuration register.

**2.Power loss on 24 VDC/250VAC:** When power restores, DALI Relay will set a switch to the state(ON/OFF) as defined in "Power On Level" configuration register.

## Specifications

### Product Technical Details:-

<b>Supply</b>	via Dali Line
<b>Coil Voltage</b>	5VDC
<b>Input Voltage</b>	16V
<b>Power consumption</b>	1.92mW
<b>Isolation</b>	Electrically isolates DALI bus and load
<b>DALI Relay consumption</b>	12mA
<b>Max. Switching Current</b>	16A
<b>Number of DALI Addresses</b>	1
<b>Mounting</b>	Flush Mount
<b>Type of contact(NO/NC)</b>	1 normally closed
<b>Dimmable</b>	No
<b>Dimensions</b>	55mm x 48mm x 25mm
<b>Weight</b>	53g
<b>Material</b>	ABS Material
<b>Ambient operating temperature</b>	-40°C to 85°C
<b>Ambient operating humidity</b>	5% to 85%
<b>Warranty</b>	5 years

## Functional

### LED Indication:-

ON	Load is ON
OFF	Load is OFF

## Benefits

- Easily adds non-DALI devices to a DALI system.
- Designed for long-term operation in various environments.
- Potential-free, bi-stable relay make contact.
- Integrates with DALI scenes and groups.
- Energy efficiency by automatic switching based on schedules.

## Installation

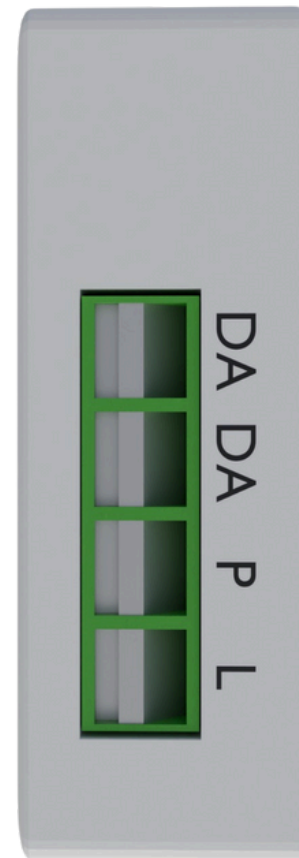
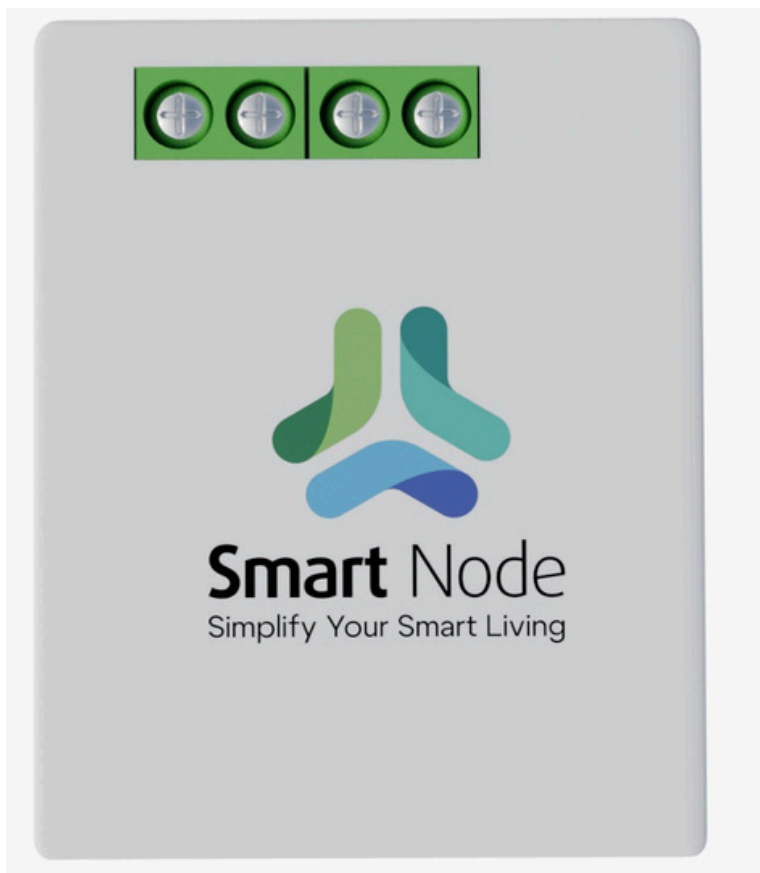
- 1.Ensure the power supply and DALI bus are disconnected before installation.
- 2.Mount the relay module securely in a flush mounting box or panel.
- 3.Connect DA and DA terminals to the DALI bus (polarity independent).
- 4.Connect the load wire to the NO terminal and live wire to the PH terminal.
- 5.Ensure the load's voltage and current are within the relay's rated capacity.
- 6.Verify all connections before powering up the system.
- 7.Configure the module by doing DALI Commissioning from Application (assign address, scenes, and groups as needed).

## Dimension

48 mm

25 mm

55 mm



## Wiring

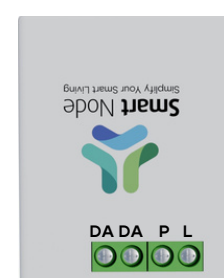
DALI Bus



Dali power supply



Dali controller



## Safety Information:-

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.