



RAPID DALI-2 Network Input Device Mid Range Ceiling User Guide

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RAPID DALI-2 Network Input Device Mid Range Ceiling



Specifications

- **Dimensions:** See diagrams opposite
- **Weight:** 0.15kg
- **Supply Voltage:** 9.5V–22.5VDC over DALI Bus
- **Nominal Current Consumption:** 8mA
- **Maximum (Peak) Current Consumption:** 18mA
- **DALI bus:** Cannot be considered as SELV since DALI, ballasts only offer basic insulation, therefore all devices on the DALI bus must be wired as if carrying mains potential.
- **Terminal Capacity:** 2.5mm²
- **Temperature:**
- **Humidity:** 5 to 95% non-condensing
- **Material (casing):** Flame retardant ABS and PC/ABS
- **Type:** Class 2
- **IP rating:** IP40
- **Compliance:** CE & UKCA DALI-2 Certification IEC62386 Parts 101,103, 303 & 304

Overview



The DALI-2 RAPID PIR mid-range presence detectors provides automatic control of lighting. It is connected to the RAPID DALI-2 Gateway via a DALI network.

Functioning as a presence detector, the unit can turn lights on when a room is occupied and off when the room is empty.

An adjustable internal light sensor provides light level information to the RAPID system to allow lights to be kept off if sufficient daylight is present, and to enable maintained illuminance for dimming systems.

An integral IR sensor in the unit allows the unit to be commissioned, and used in conjunction with a remote control handset (part no: UHS) to:

- Act as a conventional dimmer
- Override the unit on or off

Features

- **PIR Sensor**

Detects movement within the unit's detection range, allowing load control in response to changes in occupancy.

- **IR Receiver**


Receives control and programming commands from an IR (infrared) handset.

- **Light Level Sensor**

Measures the overall light level in the detection area

- **Status LEDs**

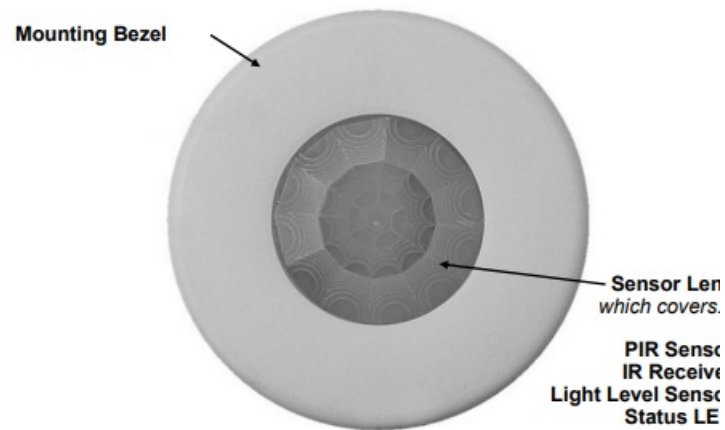
The LED flashes Red or Green to indicate the following:

| | |
|--------------------------------------|---|
| <i>Walk Test LED active</i> |  <i>when movement is detected</i> |
| <i>Valid setting received</i> |  |

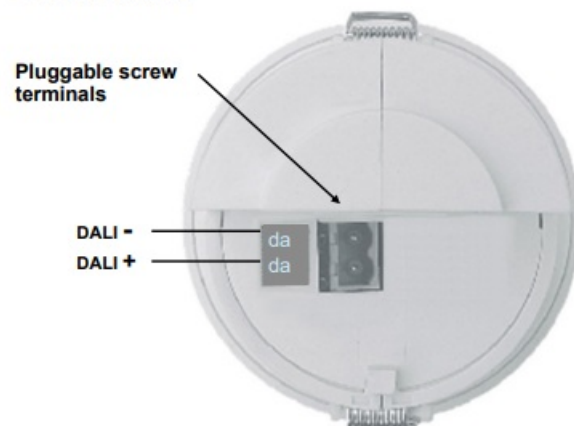
DALI connection

Connection to the DALI bus via pluggable screw terminals. The DALI bus is polarity insensitive.

Front features



Back features



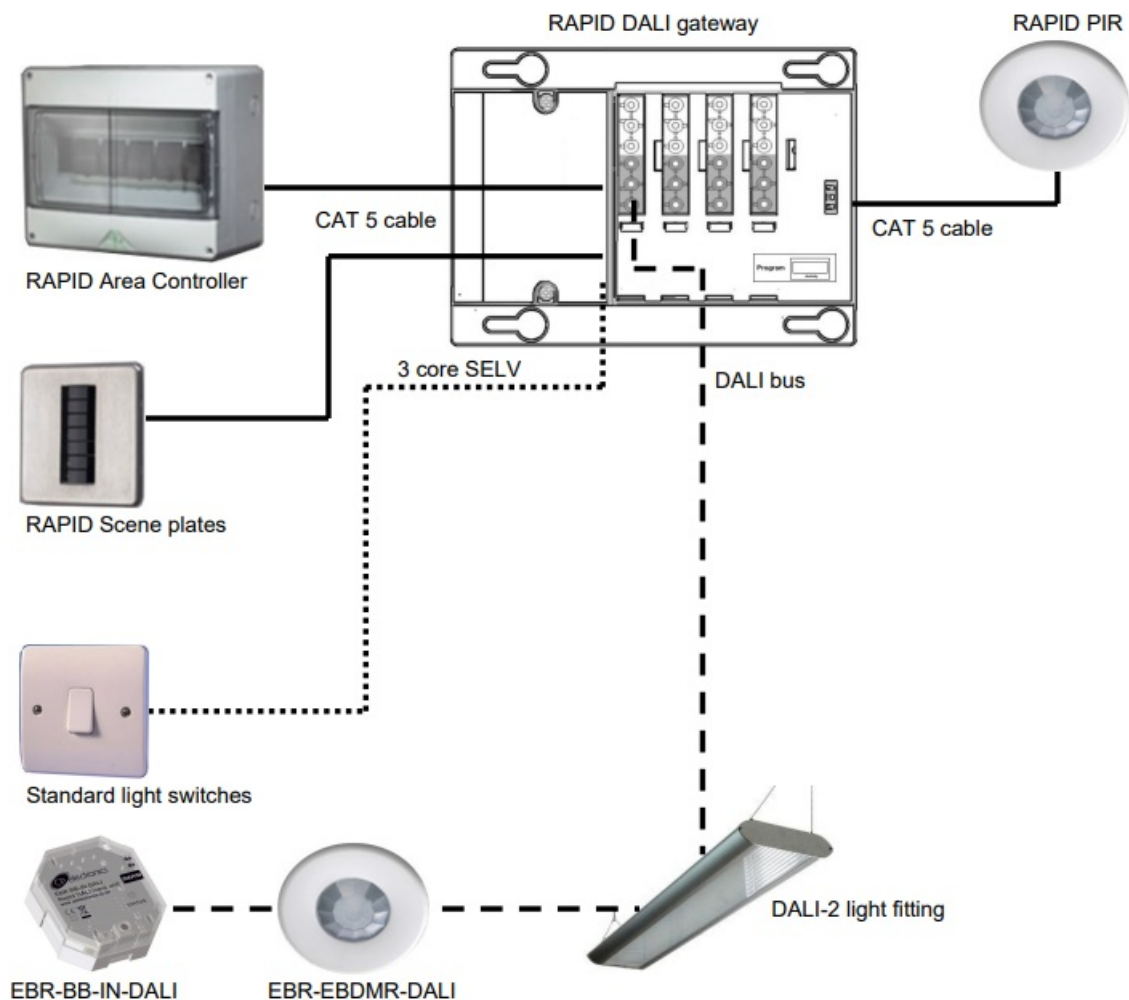
Installation

Choosing a Suitable Location

The EBR-EBDMR-DALI are designed to be ceiling mounted and must satisfy the following criteria:

- Avoid positioning the unit where direct sunlight may enter the sensor element.
- Do not site the sensor within 1m of any lighting, forced air heating or ventilation.
- Do not fix the sensor to an unstable or vibrating surface.
- Do not exceed maximum length of cable (200m) on data bus.
- Do not exceed maximum bus loading (240mA).

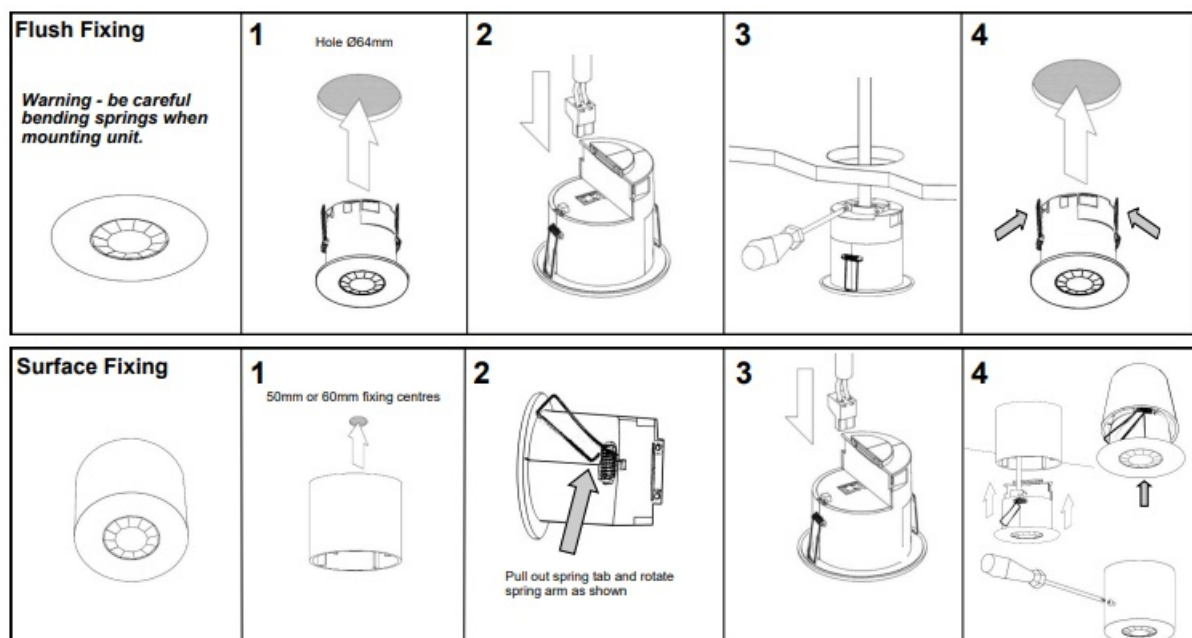
System wiring example (For reference)



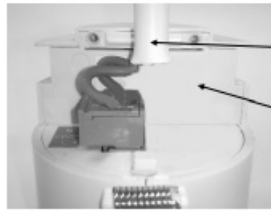
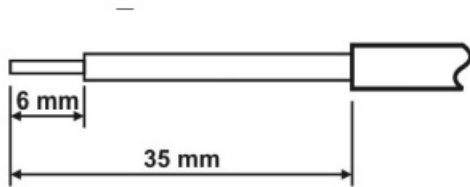
IMPORTANT NOTICE!: This device should be installed by a qualified electrician in accordance with the latest edition of the IET Wiring Regulations and any applicable Building Regulations.

The EBR-EBDMR-DALI are designed to be mounted using either:

- Flush fixing, or
- Surface fixing, using the optional Surface Mounting Box (part no. EBDBB). Both methods are illustrated below.



Wire stripping details



Important
Ensure that the cables are formed as shown before affixing the cable clamp. The clamp **MUST** clamp the outer sheath(s) only.
Bend cores as shown.

DALI bus loading

For reference only: Devices (detectors / input units) and driver combinations for 200mA supply. This assumes that the sensor LEDs are all on, and the sensor is receiving IR communication.

- 4 devices and up to 64 drivers
- 5 devices and up to 55 drivers
- 6 devices and up to 44 drivers
- 7 devices and up to 33 drivers
- 8 devices and up to 22 drivers
- 9 devices and up to 12 drivers
- 10 devices and up to 2 drivers

In most realistic scenarios, only one LED is on at a time and only one detector is receiving IR; guidance changes to.

- 10 devices up to 64 drivers
- 11 devices up to 60 drivers
- 12 devices up to 55 drivers
- 13 devices up to 50 drivers
- 14 devices up to 48 drivers
- 15 devices up to 44 drivers

Addressing limits of DG64

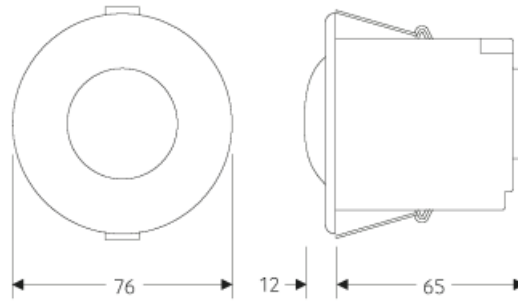
- 5 input units of 7 channels each
- 10 detectors

Technical data

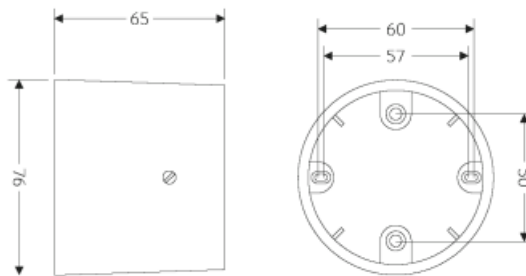
- **Dimensions:** See diagrams opposite
- **Weight:** 0.15kg
- **Supply Voltage:** 9.5V—22.5VDC over DALI Bus Nominal Current Consumption: 8mA Maximum (Peak) Current
- **Consumption:** 18mA
- **DALI bus:** Cannot be considered as SELV since DALI, ballasts only offer basic insulation, therefore all devices on the DALI bus must be wired as if carrying mains potential.

- **Terminal Capacity:** 2.5mm²
- **Temperature:** –10°C to 35°C
- **Humidity:** 5 to 95% non-condensing
- **Material (casing):** Flame retardant ABS and PC/ABS
- **Type:** Class 2
- **IP rating:** IP40
- **Compliance:** CE & UKCA DALI-2 Certification IEC62386 Parts 101,103, 303 & 304

EBR-EBDMR-DALI

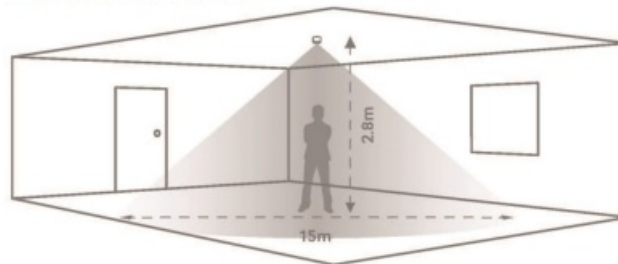


EBDBB – Surface mounting box



Detection diagram

EBR-EBDMR-DALI



Part numbers

- RAPID Detector
- Accessories

Part number

- EBR-EBDMR-DALI EBDBB

- UHS
- UNLCDHS

Description


- DALI-2 network, mid-range, input device, ceiling PIR presence detector Surface mounting box
- User handset override on/off; lux up/lux down
- Universal LCD programming handset

MORE INFORMATION

- CP Electronics
- Brent Crescent
- London
- NW10 7XR
- United Kingdom
- **Tel:** + 44 (0) 333 900 0671
- **E-mail:** customerservice.cpelectronics@legrand.com
- **Website:** www.legrand.co.uk/en/brands/cp-electronics

Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice

Documents / Resources

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|---|--|
|  | <p>RAPID DALI-2 Network Input Device Mid Range Ceiling [pdf] User Guide EBR-EBDMR-DALI, EBDSPiR-AT-DD, DALI-2 Network Input Device Mid Range Ceiling, DALI-2 , Network Input Device Mid Range Ceiling, Input Device Mid Range Ceiling, Device Mid Range Ceiling, Mid Range Ceiling, Range Ceiling, Ceiling</p> |
|---|--|

References

- [Home | Legrand](#)
- [CP Electronics | Brands | Legrand United Kingdom](#)
- [User Manual](#)