



Quad Power Relay (DALI)

RA144RB1

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Features

- AC 100...240V, 50...60Hz input.
- Entry level of DALI power relay gear.
- Class II, IP42, standby power 0.5W.
- DALI address by DIP switches or Auto addressing.
- Max 16A for each relay channel.
- Specialized power relay, ideal for LED luminaires
- Global safety compliant, suitable for home and office.



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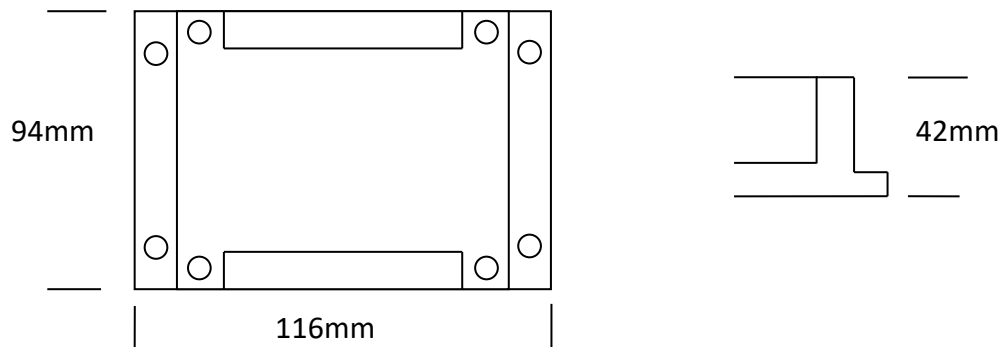
RoHS

2. Specification

Technical Data

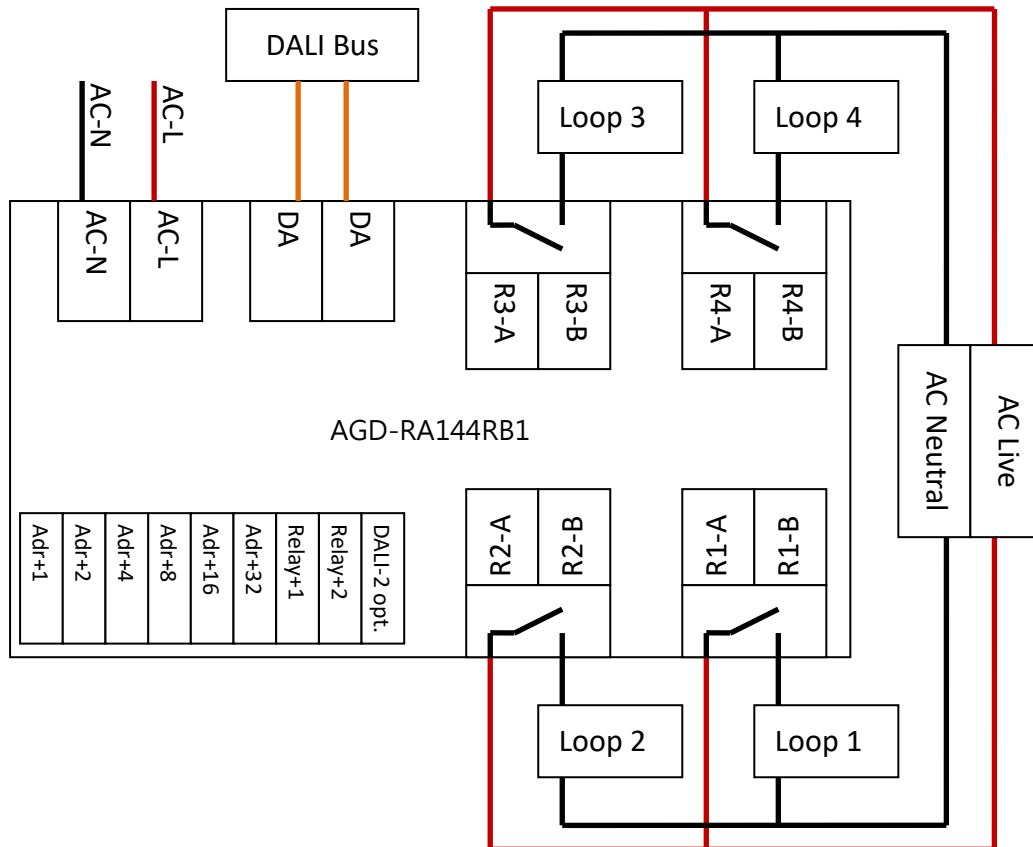
Model		AGD-RA144RB1
Input	Voltage/Hz	100...240V AC, 50...60Hz
	Leakage	< 0.25mA
	Standby W	< 0.5W
	Power Factor	0.5
	Harmonic	< 15%
Relay Channel	Voltage	AC 240V
	Current	16A per channel
Protection	Surge capability	L/N-Ground 2kV, L-N 1kV
	Isolation	Main input/output SELV, main input/DALI FELV
Environment	Temperature	Ta: -30...+50°C, Tc: 70°C
	Humidity	20...95%
	Storage	-40...+80°C, 10...95%
Dimming	DALI	IEC 62386 101, 102, 208
	Dim Mode	None, on/off only
Others	Det. & Data	None
	Dimension	116*94*42mm
	Weight	240g

Dimension



3. Installation

Wiring and circuit diagram



- No Polarity of each Relay channel.
- NO FUSE on each relay channel.
- Never exceed its max current and voltage. For better inrush current protection, half load (8A) is recommended.
- All wiring must be done with main power source is off.
- DA/DA terminals are for DALI bus wires, and they are cataloged FELV, and should be connected to FELV circuit.

Hot plug-in

Hot plug-in is not recommended. Installation, wiring and repairing must be done with main power source is off.

Usage and install

The relay controller has installed with specialized power relays, and it is intended for

luminaire controls, only. Do not use it for motor controls (specially AC motors), or any inductive devices.

Good ventilation and a distance from heat source is recommended.

DIP switches

9 dip switches are installed on the products. The dip switches are used to assign DALI address and the number of relays to be used.

Adr+1	Adr+2	Adr+4	Adr+8	Adr+16	Adr+32	Relay+1	Relay+2	AUTO
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AUTO is used to select DALI-2 mode or manual address mode. When AUTO is on, each channel's DALI address is assigned by standard DALI-2 commands. If not on, its addresses are assigned by the dip switches.

Relay+1...2 are used for select the number of relays to be used. The default is 1. If Relay+1 is switched to ON, it means total (1 + 1) relays are used. If Relay+2 and Relay+1 are ON, it means total (1 + 1 + 2) relays are used. The max relay is 4. This can be configured when DALI-2 Opt is off.

Adr+1...32 are used to assign DALI short address to the first relay channel. The default address is 0. If Adr+2 and Adr+8 are switched to ON, it tells the start DALI address of the first relay is (0 + 2 + 8) = 10, the second relay is 10 + 1, and so on. This can be used with DALI-2 Opt is off.

If the selected relays are less than 4, the unused relay and DALI address will not respond and its output remains open.

4. Others

Warning / Caution !!

- Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not remove the case of the device by yourself!
- The openings should be protected from foreign objects or dripping liquids.
- Never exceed the rated input and output voltage and current on the specifications.
- If the cases or terminal connector of this device is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.
- The DALI is designed as FELV circuit, its terminal shall connect to FELV circuit. Connecting to SELV will lower its isolation level to FELV.