

LDALI-RM1, LDALI-RM2

Datasheet #89036119



The LDALI-RM Relay Modules enable the control of standard consumers via a DALI channel. The built-in relay contact can be used for currents of up to 8 A respectively loads of up to 2 000 VA. The module is designed for a maximum inrush current of 80 A. The LDALI-RM modules are directly connected to a DALI channel and also supplied with energy by that channel.

Together with the LOYTEC DALI controllers or LROC-40x room automation controllers, the LDALI-RM1 acts as a programmable switching output module. The integration of the module in the DALI network follows the same simple steps as the integration of a DALI lamp. The LDALI-RM1 is a control device for non-dimmable loads based on the DALI specification IEC 62386-208 (Device Type 7).

The LDALI-RM2 has the same features as the LDALI-RM1 but in addition a 1 – 10 V interface to dim lamps based on the DALI specifications IEC 62386-206 (Device Type 5).

Features

- Easy integration into LOYTEC L-DALI lighting systems and LROC-40x room automation controllers
- Device configuration with the free L-DALI Configurator or via the built-in web server of the L-DALI controller
- Programmable switching output for standard consumers in the power grid
- Up to 64 LDALI-RM1 Relay Modules per DALI channel with sufficient dimensioned bus supply
- The relay module is supplied via the DALI channel
- Potential-free, bistable relay make contact
- DALI specification IEC 62386-208, Device Type 7 – Switching Function (LDALI-RM1)
- DALI specification IEC 62386-206, Device Type 5 – Converter (LDALI-RM2)
- Analog Interface 1 – 10 V for dimmable lamps (LDALI-RM2 only)

Specifications

Type	LDALI-RM1	LDALI-RM2
Dimensions (mm)	32.5 x 15.2 x 60 (L x W x H), DIM042	
Power supply	DALI bus, typ. 2.6 mA at 16 VDC	DALI bus, typ. 4.2 mA at 16 VDC
Operating conditions	0 °C to 45 °C, 10 – 90 % RH, non-condensing, degree of protection: IP20	
Interfaces	1 x DALI, protected against overvoltages (power supply) 1 x Relay output, make contact, single pole, potential-free, bistable *	1 x DALI, protected against overvoltages (power supply) 1 x Relay output, make contact, single pole, potential-free, bistable * 1 x Analog Interface 1 – 10 V, current sink 1 mA
For use with	LDALI-3E102-U, LDALI-3E104-U, LDALI-3E101-U, LDALI-ME204-U, LDALI-ME201-U, LROC-40x	

Resource limits

Number of LDALI-RM1/LDALI-RM2	64 per DALI channel, with sufficient dimensioned DALI bus power
Connection wires profile	0.5 – 1.5 mm ² [AWG 20 – 16]
Wire stripping length	8.5 – 9.5 mm [0.32 – 0.36 in]
Nominal load and current AC	2 000 VA / 8 A
Nominal load and current DC	150 W / 5 A
Relay contact switching voltage	250 VAC / 30 VDC
Max. inrush current peak AC	80 A, zero cross switching
Switching cycle	5 x 10 ⁵
Max. permissible switching frequency	1 Hz
Interface (1 – 10V)	1 – 10 V current sink 1 mA (LDALI-RM2 only)

Order number Product description

LDALI-RM1	DALI Relay Module 8 A
LDALI-RM2	DALI Relay Module 8 A, Analog Interface 1 – 10 V

* If the DALI supply fails, the relay contact remains in the latest state.