elitedali™ - for Niagara
smart lighting controls

elitedali Compact DALI Relay Datasheet

Introduction

CNS continues to work with all DALI® product manufacturers to ensure the widest range of DALI products is available to the global Niagara community that are suitable for use with **elite**dali for Niagara.

These compact DALI relays are for use with non-dimmable ballasts in a DALI lighting control solution. In addition they may be used for control of suitable non lighting loads.

Features

♦ Compact relay modules for direct control of 230VAC loads via DALI and Niagara

♦ Provides simple low cost solution to integrate non-dimming ballasts into a DALI network controlled and monitored via **elite**dali in Niagara

♦ Enables simple ON/ OFF control in Niagara via **elite**dali and and complies with IEC 62386 DALI Type 7 switching function

♦ 8 and 16 Amp options with 80A and 160A in-rush current capability respectively

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Specifications

Type	RM16	RM16-DE	RM16-CEL	RM16 HS	RM8	RM8 HS
Supply	via DALI Network					
Typ. DALI current consumption	2.1 mA					
Input	DALI					
Number of used DALI addresses	1					
Relay output switch on/off voltage	250Vac/400Vac					
Maximum nominal load and current	2000VA 8A	4000VA 16A	4000VA 16A	4000VA 16A	2000VA 8A	2000VA 8A
Max. inrush current	80A	160A			80A	
Type of relay contact	1 changeover	1 changeover	1 normally open	1 changeover	1 normally open	
Switching operations at nominal load, resistive	30,000				100,000	
Maximum switching frequency	1Hz					
Permitted ambient operating temperature	0°C-45°C					
Protection class	IP20					
Connecting wire cross section	0,5-1,5 mm2					

◆ The DALI RM 8/16 is supplied directly by the DALI signal line
◆ RM16 type for high inrush currents up to 160A
◆ RM16 mounting option types –
  • RM16-DE for in ceiling mounting
  • RM16HS for DIN-rail mounting
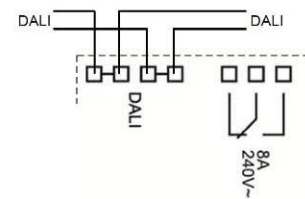 • RM16-CEL for DIN-rail mounting and with Wieland connector option

Dimensions and Connections

Back box mounting type:
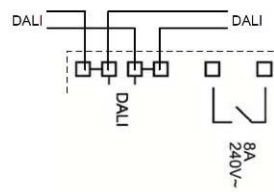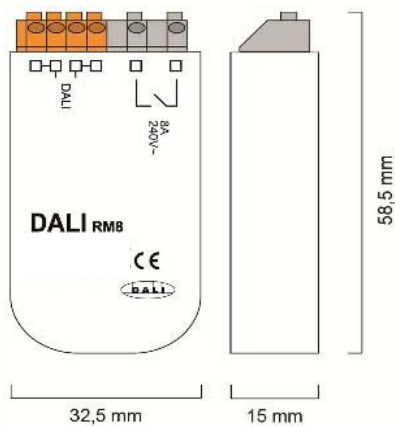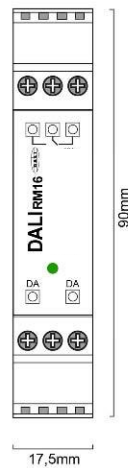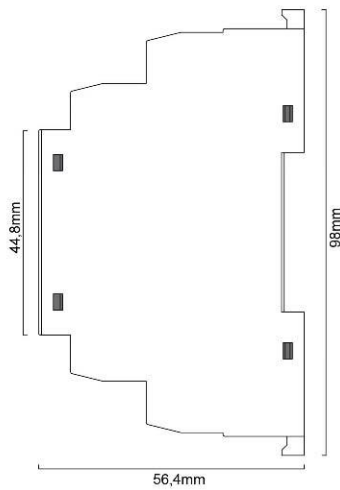

Wiring Connection RM8

Wiring Connection RM16

DIN-rail Mounting Type:

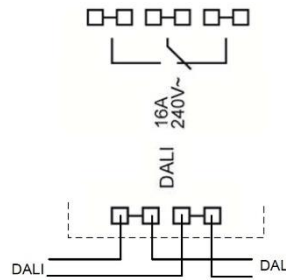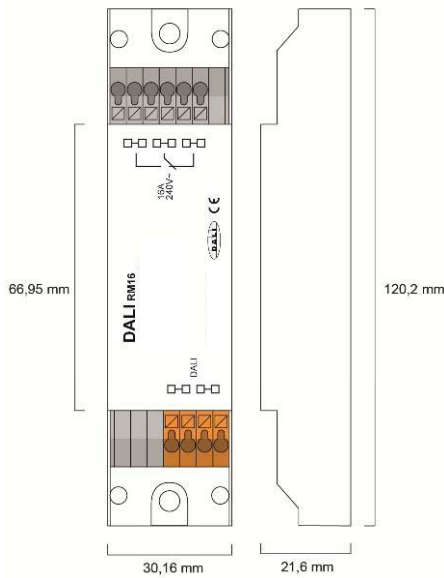Wiring Connection RM8 HS

Wiring Connection RM16 HS

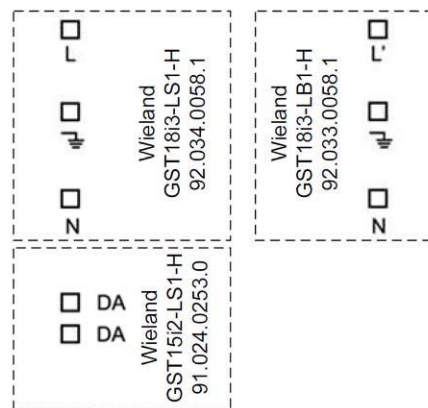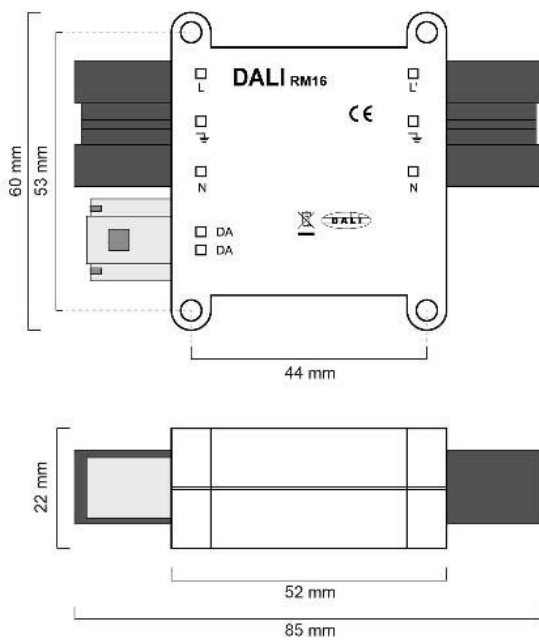**Website: www.control-network-solutions.co.uk**

Remote ceiling mounting type:

Wiring Connection RM16 DE

Wieland connector type:

Wiring Connection RM16 CEL

Website: www.control-network-solutions.co.uk
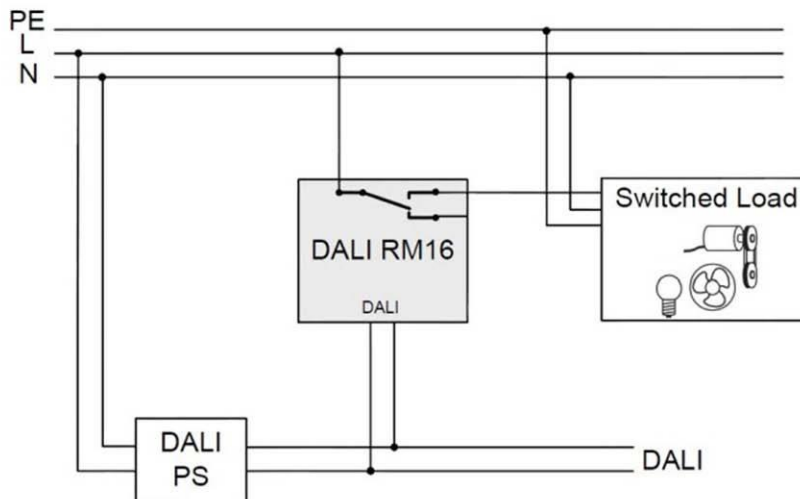
Connection Details

The relay module is powered directly from the DALI network. It must **NOT** be connected to the mains. A typical value of DALI network current consumption is 2.1mA. The connection to the DALI line is polarity free. The DALI input is protected against overvoltage up to 250VAC. For RM8/16 and RM16-DE types internally the DALI-terminals are connected through as visualized on the housing (see connection schematics above).

The relay output of the RM8/16 and RM8-HS type supports loads up to 2000VA and currents up to 8A, whereas the RM16-DE, RM16-HS and RM16-CEL types support loads up to 4000VA (16A). The RM16 modules are suitable for high inrush currents up to 160A.

www.elitedali.com

DALI Functions

The DALI RM 8/16 acts as a DALI-controlled relay contact. Hence ballasts can be integrated in a DALI-system and switched on and off by DALI commands from Niagara via **elite**dali.

These devices also act like a standard DALI ballast for non-dimmable loads. They are based on the DALI specification for control gear (IEC 62386-102) and the device type 7 extension (IEC 62386-208)

DALI Addressing and Configuration

These devices are addressed using the **elite**dali addressing and commissioning tools, see Certified **elite**dali Partner Reference Manuals.

Order Details

Description: **Part No:**

elitedali **DALI Relay, 16A, Back box mounting**   **elite**dali**.RM16**

elitedali **DALI Relay, 16A, ceiling mount**   **elite**dali**.RM16-DE**

elitedali **DALI Relay, 16A, DIN rail**   **elite**dali**.RM16HS**

elitedali **DALI Relay, 16A, DIN + Wieland Conn**   **elite**dali**.RM16-CEL**

elitedali **DALI Relay, 8A, Back box mounting**   **elite**dali**.RM8**

elitedali **DALI Relay, 8A, DIN rail**   **elite**dali**.RM8HS**

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Additional **elite**dali compatible DALI products are also available, click here for more details.

Contact Details

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