

- *elitedali* for Niagara AX[®]

www.elitedali.com

elitedali-3 Channel DALI[®] Relay Module Datasheet

Introduction

The ***elitedali 3-Channel Relay Module*** is a control module for use on a DALI network to control relay switched loads such as non intelligent lighting and other non lighting loads. When viewed via ***CNS's elite DALI[®] Solution for Niagara AX[™]*** environment the three relay outputs appear as three separate ballasts. These relay outputs are easily controlled and linked to other DALI devices via the ballast software objects in the ***CNS's elite DALI[®] Solution*** software. Any number of these ***elitedali 3-Channel Relay Modules*** can be used on an ***CNS's elite DALI[®] Solution*** DALI network.

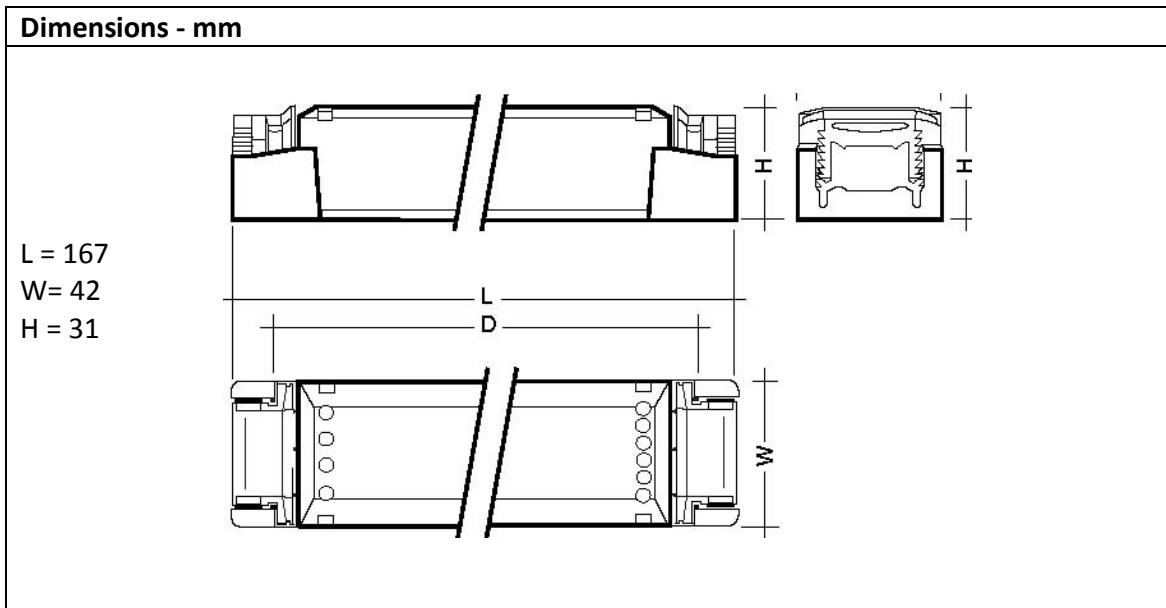


Features

- ◆ Compact packaging
- ◆ Controls up to three standard 24 V DC contactors
- ◆ Each output can be controlled separately
- ◆ Device can exist in multiple DALI groups
- ◆ -25 to + 45C
- ◆ CE

Specifications

Power supply:	Input voltage range	V AC	198–254
	Input voltage range	V DC	200–240 (160 □)
	Rated current at 230 V 50 Hz	A	0.13
	Rated frequency	Hz	0/50/60
Input:	–	–	DALI signal
	Current input	mA	2
	DALI short addresses	–	3
Output:	Secondary voltage	V DC	24
	Power output	W	25
Temperature:	Ambient temperature ta	°C	-25 to +45
	Max. casing temperature tc	°C	70



Weight	–	kg	0.15
Fixing centres (D)	–	mm	143–148

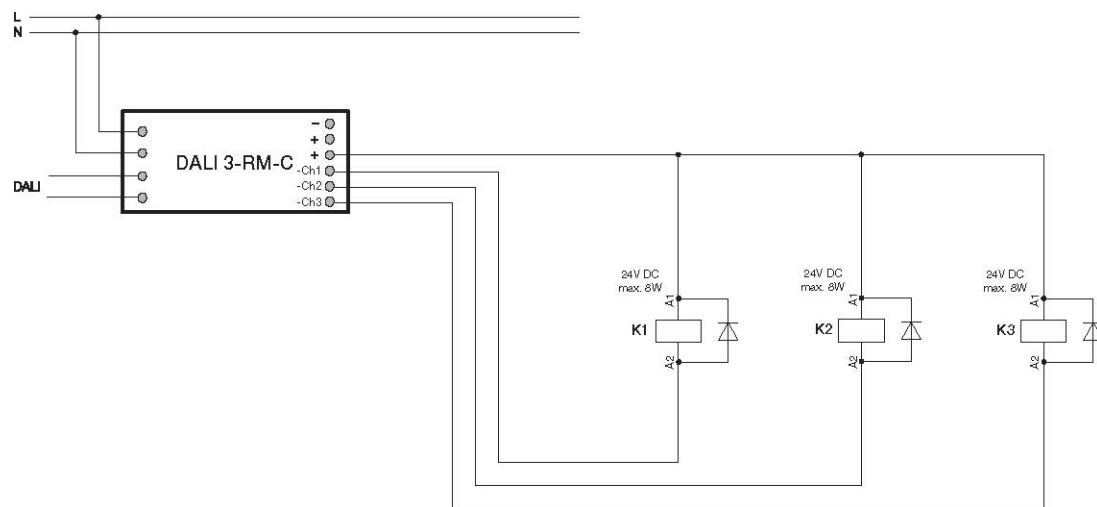
Module Installation

Module has a strain relief and terminal cover. Wires are attached via captive screw terminal allowing a maximum cable cross-section of 2.5 mm². The packaging meets Protection class 2 requirements.

The DALI 3-RM-C is connected to the DALI bus and to the mains supply. The contactor coils must be equipped with an appropriate threshold diode and 24 V signal lamps can be connected directly.

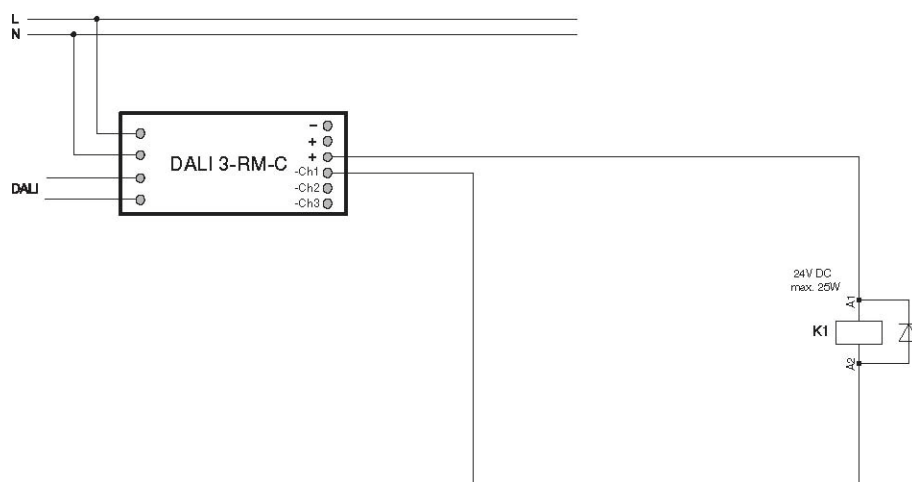
IMPORTANT: DALI is not SELV. The installation instructions for low voltage therefore apply.

Circuit diagram for three contactors with a maximum power of 8 W

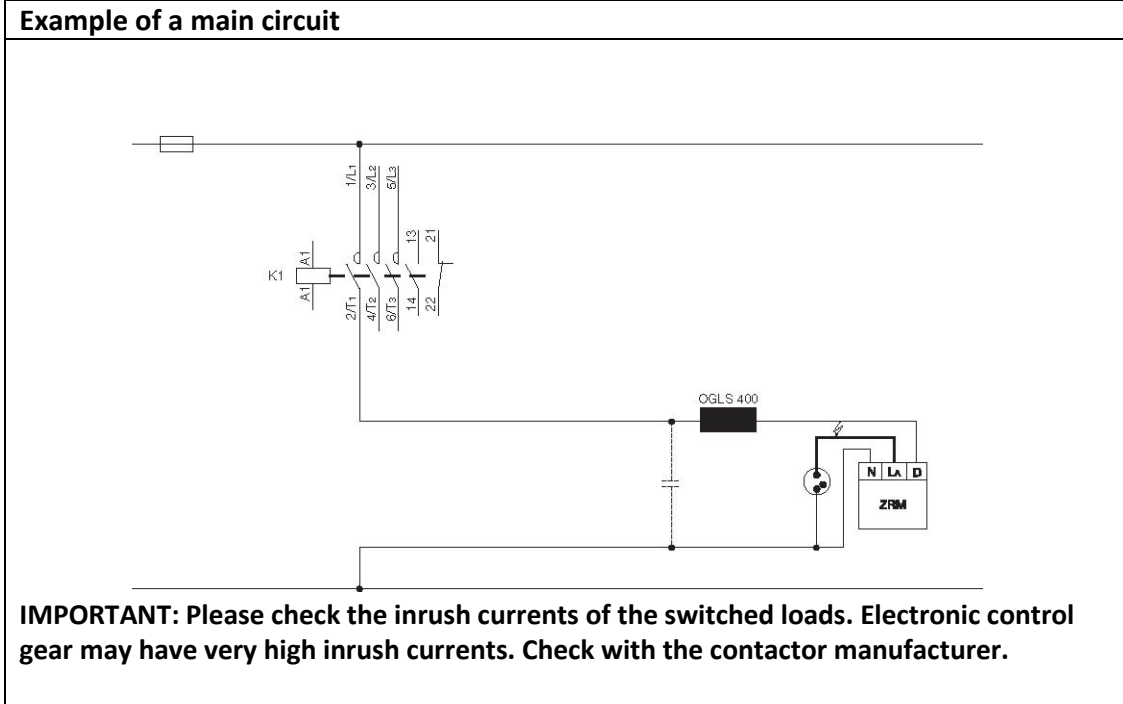


IMPORTANT : The contactors must be equipped with an appropriate threshold diode. Operation without a threshold diode is not permitted. The controller is designed for a maximum load of 25 W. This load can be split among the three channels. The loads may be distributed asymmetrically.

Circuit diagram for one contactor with a maximum power of 25 W



IMPORTANT: Outputs Ch1 and Ch3 may not be short-circuited. The entire output may flow via one output.



Conformity & Standards	
Emission	EN55 015, EN 61000-3-2
Immunity	EN 61 547
Safety	EN 61558-2-17

Order Details

Description: DALI 3 Channel Relay Module **Part No:** elitedali.3-RM-C

CNS can also supply elite DALI[®] Solutions and DALI[®] compatible Presence, Light level and Power Supply products as follows –

- elitedali Multidrop Connectivity Kit – [click here](#)
- elitedali Power Supply – 250mA, 22VDC output, [click here](#)
- elitedali MultiSensor – Presence and light level, [click here](#)



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