

- *elitedali* for Niagara AX®

www.elitedali.com

elitedali-3 Channel DALI® Relay Module Datasheet

Introduction

The **elitedali 3-Channel Relay DALI 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 elitedali 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 elitedali** solution software. Any number of these **elitedali 3-Channel Relay Modules** can be used in a **CNS elitedali** solution DALI network.

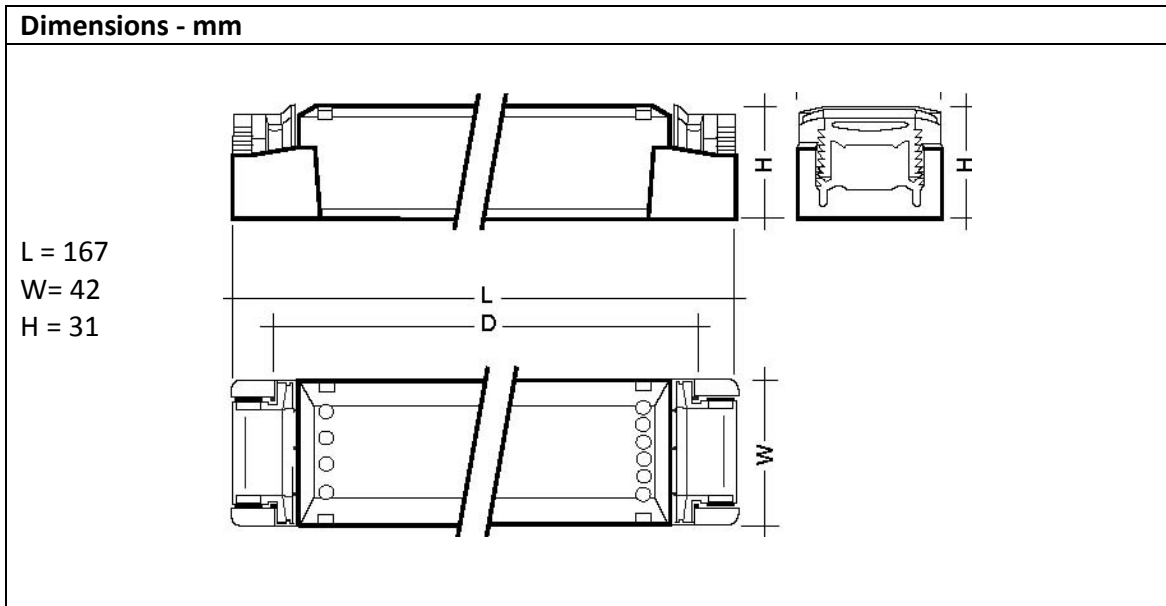


Features

- ◆ 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 t_a	°C	-25 to +45
	Max. casing temperature t_c	°C	70



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

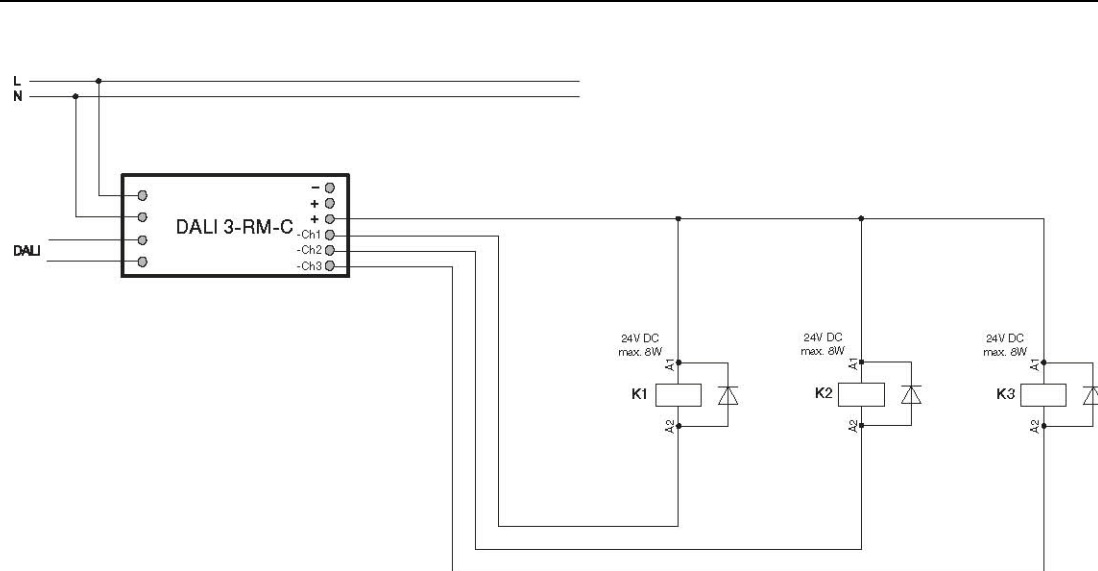
Module Installation

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.

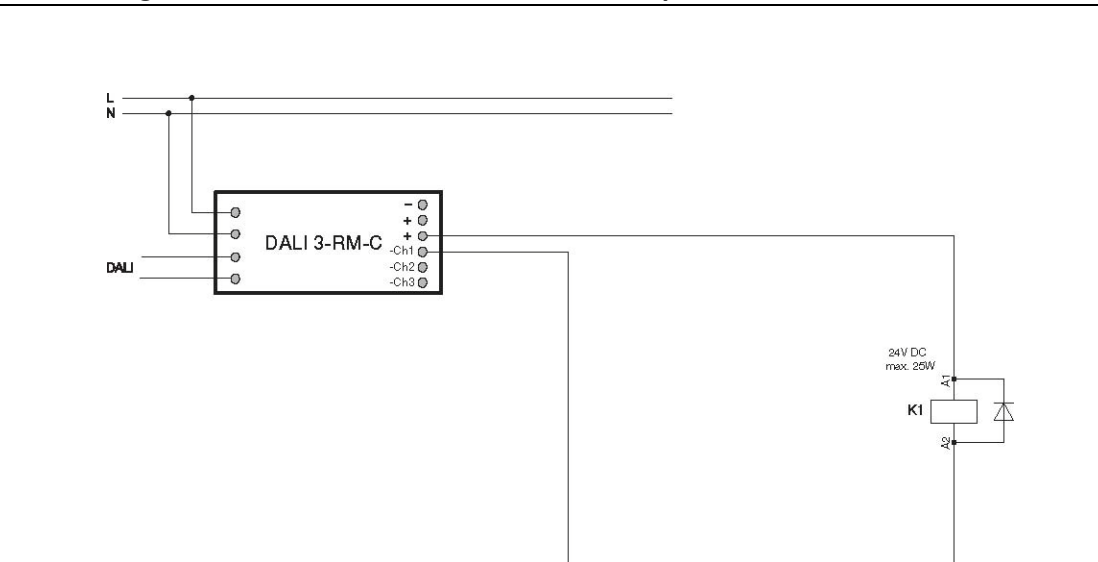
IMPORTANT: DALI is not SELV. The installation instructions for low voltage therefore apply.

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

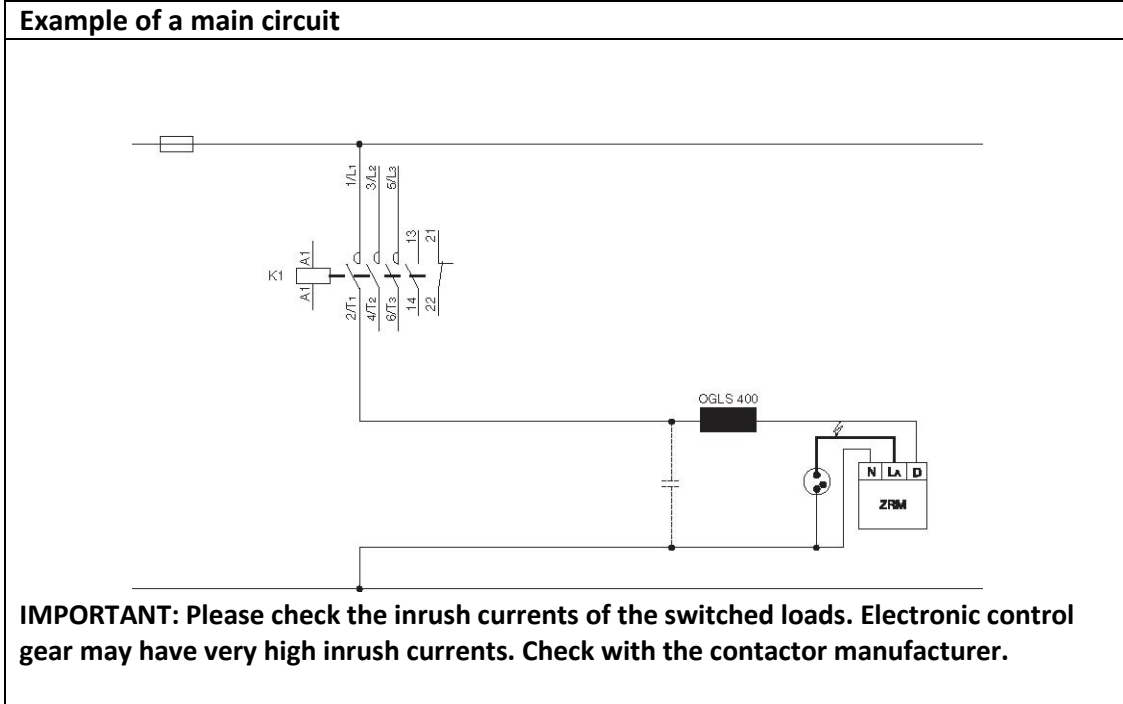


IMPORTANT : The contactors must be equipped with an appropriate threshold diode. Operation without a threshold diode is not permitted. The controller is designed for a maximum load of 25 W. This load can be split among the three channels. The loads may be distributed asymmetrically.

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 elitedali[™] solutions DALI[®] compatible Presence, Light level and Power Supply products as follows –

- elitedali Multidrop Connectivity Kit – [click here](#)
- elitedali DALI Power Supply – 250mA @ nominal 20VDC output, [click here](#)
- elitedali DALI MultiSensor – Presence and light level, [click here](#)
- elitedali DALI MultiSensor2 - Presence and light level, [click here](#)



Contact Details

Control Network Solutions Ltd

Studio 7, Intec 2, Intec Business Park, Wade Road
BASINGSTOKE,
Hampshire, RG24 8NE, England

Tel: +44 (0) 1256 818700

Fax: +44 (0) 1256 812520

Email: cns@control-network-solutions.co.uk

Web: <http://www.control-network-solutions.co.uk>

Web: <http://www.elitedali.com>

eLighting, *elitedali* and *eDIM* are the trademarks of Control Network Solutions lighting control family of products for Niagara AX. Tridium, Niagara AX, JACE and Niagara AX Framework are the registered trademarks of Tridium Inc. DALI is the registered trademark of the DALI.ag.org Standards organisation.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, in part or in whole, without prior permission of Control Network. We reserve the right to make changes without notice to any products herein as part of its continued product development and improvements. We do not assume any liability arising out of the application or use of any product or circuit described herein.