

Installation & Wiring Instructions

CBR Changeover Relay For DALI Dimming Operation



PLEASE READ THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

Description:

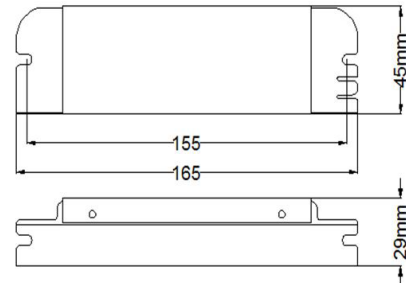
The CBR is an emergency lighting change over relay with an additional dimming inhibition relay that will restore a fitting that was running in a mains dimmed state, to full brightness for emergency operation.

Compatible with fluorescent and LED loads and runs in conjunction with either 240V 50/60Hz AC static inverter or 50V, 110V or 240V DC central battery systems.

NB: The associated mains control gear must be able to operate from the emergency voltage.

Specification:

Mains Supply Voltage	230-240 Volts AC 50/60 Hz
Input Current	19mA
Power Factor	$\lambda = 0.58$
Emergency Voltage	50V, 110V or 240V AC/DC
Ambient Temperature	0°C to + 50°C
Max Case Temperature	70°C
Terminal Blocks	0.5-1.5mm ² Screw
Ingress Protection	IP20
Changeover Relay Rating	3A 240V
Module Size (L x W x H)	165mm x 45mm x 29mm
Module Fixing Centers	155mm
Module Weight	0.29Kg



Warning

Avoid running the LED mains driver and changeover pack without the load connected. Failure to do so may result in damage to the LED array

Important

It is recommended that the module is installed by a competent person ensuring the installation complies with the necessary standards. Liteplan accept no responsibility for injury, damage or loss, which may arise as a result of incorrect installation, operation or maintenance.

The conversion requires an unswitched supply for energisation of the relay and a switched supply if the unit is being used for maintained operation.

ISOLATE BOTH MAINS SUPPLIES AND ISOLATE FROM THE EMERGENCY SUPPLY BEFORE INSTALLATION OR MAINTENANCE.

Installation

When converting a luminaire observe the following points:-

1. Fit the module into the existing luminaire ensuring that it will operate within its temperature ratings.
2. If the module does not fit integrally, then a remote conversion can be used. Ensure that the interconnecting loom is kept as short as possible.
3. Wire the module into the luminaire circuit as per wiring diagram on Pg2.
4. Ensure that the Permanent Live & Switched Live feeds are connected correctly.
5. Requirements for 'F' markings must be observed.
6. Identify clearly the NEW Un-switched supply.
7. Avoid running the 240V cables near the DALI pair to ensure optimum EMC results.
8. If fitted within a metal enclosure, connect earth terminal to metal gear tray for improved EMC.
9. This module is not intended for use in luminaires for high-risk task area lighting.

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CBR Changeover Relay

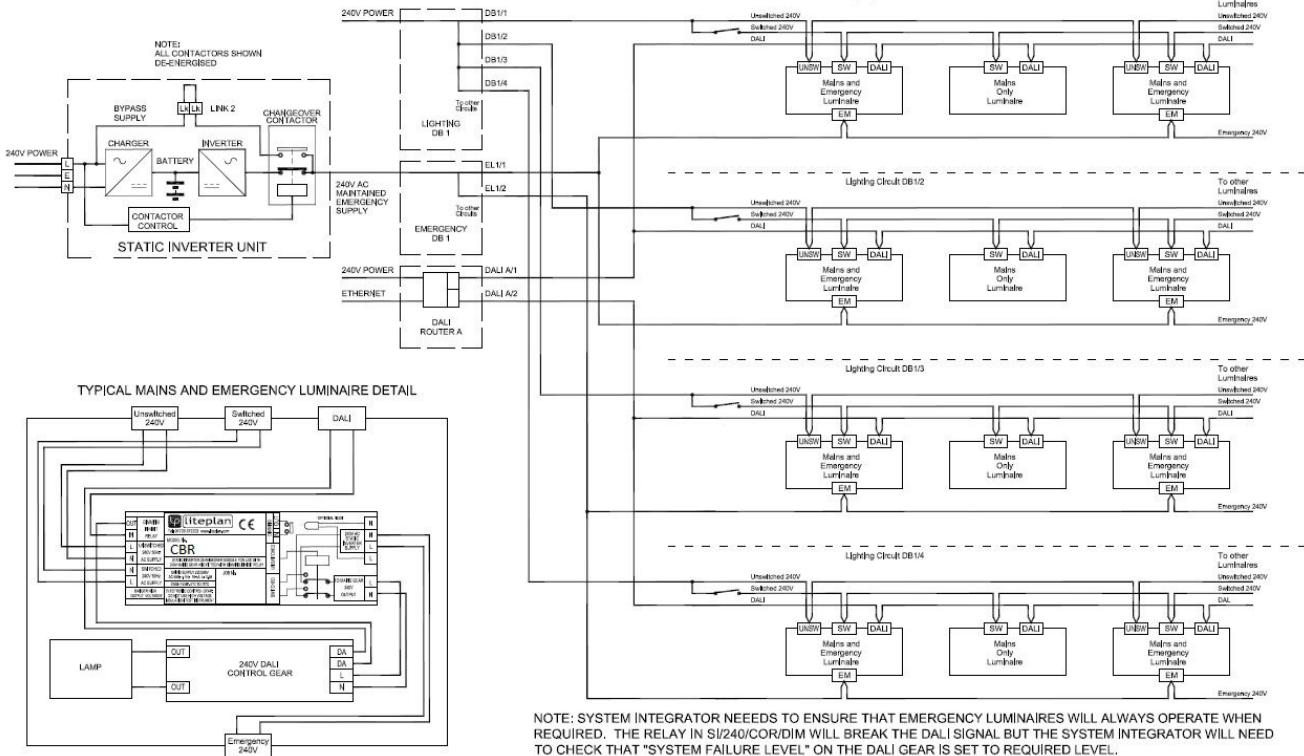
For DALI Dimming Operation



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Typical
Conversion
Wiring Diagram

STATIC INVERTER SYSTEM WITH 240V MAINTAINED DALI LUMINAIRES



If using the CBR in conjunction with a switch dimming system, then please refer to the wiring diagram entitled CBR Changeover Relay Non-DALI Operation. The wiring instruction is slightly different.

NB: The associated control gear must be suitable for running from the emergency voltage.