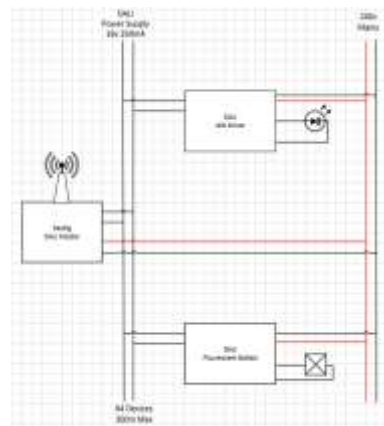# Information Sheet – DALI

Digital Addressable Lighting Interface – DALI – is a worldwide standard (IEC 62386) relating to luminaires that have DALI interfaces.

A DALI Network consists of a controller and one or more luminaires with DALI interfaces. The Luminaires hold certain information locally, such as address, power on level, fade rate, fade time, maximum level, minimum level. These are set and altered by means of a DALI Controller (Master) which also acts as the driver to send the messages.

A DALI Network can have up to 64 luminaires daisy chained from 1 Master, with a maximum distance to the end of the Line being 300m. Commands are sent over a two pair line using a very slow speed transmission (1200 baud) which are then either accepted or rejected by the luminaire based on luminaire address. If the address matches, then the command is carried out.

The Rayzig DALI Master module provides all the features necessary to operate a DALI Network, with 4 separate channels, so that scene and group commands can be carried as well as level and setup commands – such as address initialisation, search and short address management. The DALI master is powered by 230v power supply, with a 16v/250mA signal connection to drive the DALI Network.

There are some similarities between Rayzig and DALI. Where these occur, eg Rayzig Themes to DALI Scenes, a mapping between the Rayzig command and the DALI command is carried out.

The Rayzig DALI Master provide control of luminaires attached to it, but will respond to the Input commands from Rayzig Input Modules, anywhere within the Rayzig Network. This means that input devices do not have to be DALI enabled or wired into the DALI network, and can be wireless. It is suggested that rather than having long DALI control signal cable runs, the use of multiple Rayzig DALI master allows a much more flexible approach, and reduces the need for DALI signal cables.

Rayzig have tested the Rayzig DALI Master with a number of different manufacturers' DALI Luminaires and LED controllers, these include, but not limited to: Philips, Osram, ELOD, Tridonic.

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