

elitedali™ - for Niagara

smart lighting controls

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elitedali DALI Network Repeater Datasheet

Introduction

CNS continues to work with all DALI® product manufacturers to ensure the widest range of useful and compatible DALI products are available to the global Niagara community for use with **elitedali** for Niagara.

This DALI network repeater unit is manufactured by Tridonic AG who is one of the world's leading DALI product manufacturers. It is designed to enable a single, up to, 64 DALI device network to be extended from 300m (984ft) to 600m (1,968ft) in length, see diagrams later in this document.



Features

- ◆ Extends a suitably cabled single 64 DALI device network, from 300m (984ft) to 600m (1,968ft) subject to DALI wiring guide lines also refer to installation guidelines in this document.
- ◆ There is no increase in the number of DALI devices that may be connected
- ◆ The repeater amplifies the DALI signals
- ◆ Provides electrical isolation between connected DALI networks
- ◆ DIN rail mounted
- ◆ Compact design only 17mm, 0.7" wide
- ◆ Powered from the connected DALI networks, therefore, there must be a one DALI power supply connected to the DALI networks on each side of the repeater.

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Specifications

| Technical Data – DALI Power Supply/ Electrical | |
|---|--|
| Main DALI network Input Power | 6mA via main DALI Bus |
| Subordinate DALI network Input Power | 4MA via subordinate DALI Bus |
| Technical Data – Environmental | |
| Operating temperature range | 0..+50 °C |
| Storage temperature range | -20...+70 °C |
| Relative humidity | 0...90 % rel. annual average (non-condensing) |
| Environmental protection | IP 20 (housing) |
| Protection class | SK 2 |
| Mechanical | |
| Mounting | DIN, any position |
| Dimensions LxDxW | 99 x 58 x 17mm (3.9x2.3x0.7ins) |
| Weight | 60g (2.1oz) |
| Connections | |
| Mains Power | screw terminals, 0.2...2.5 mm ² (stranded), 0.2...4.0 mm ² (solid) |
| DALI network | 0.5 mm ² - 1.5 mm ² stranded or solid core |

Developed in accordance with:

EN 55015: 2000

EN 55011/1998 + A1/1999

EN 61547: 1995 + A1: 2000

EN 61000-6-2/2001

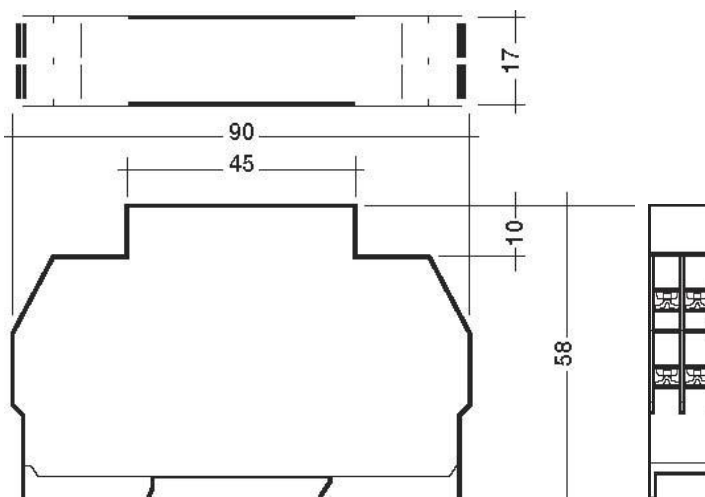
EN 61000-3-2/2000

EN 61000-3-3/1995 + A1/2001

EN 60730

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Dimensions (mm)



Wiring Connections



Installation

Because of signal delays created by this device **only one unit must be used** to extend **one DALI network**. You cannot cascade these devices!

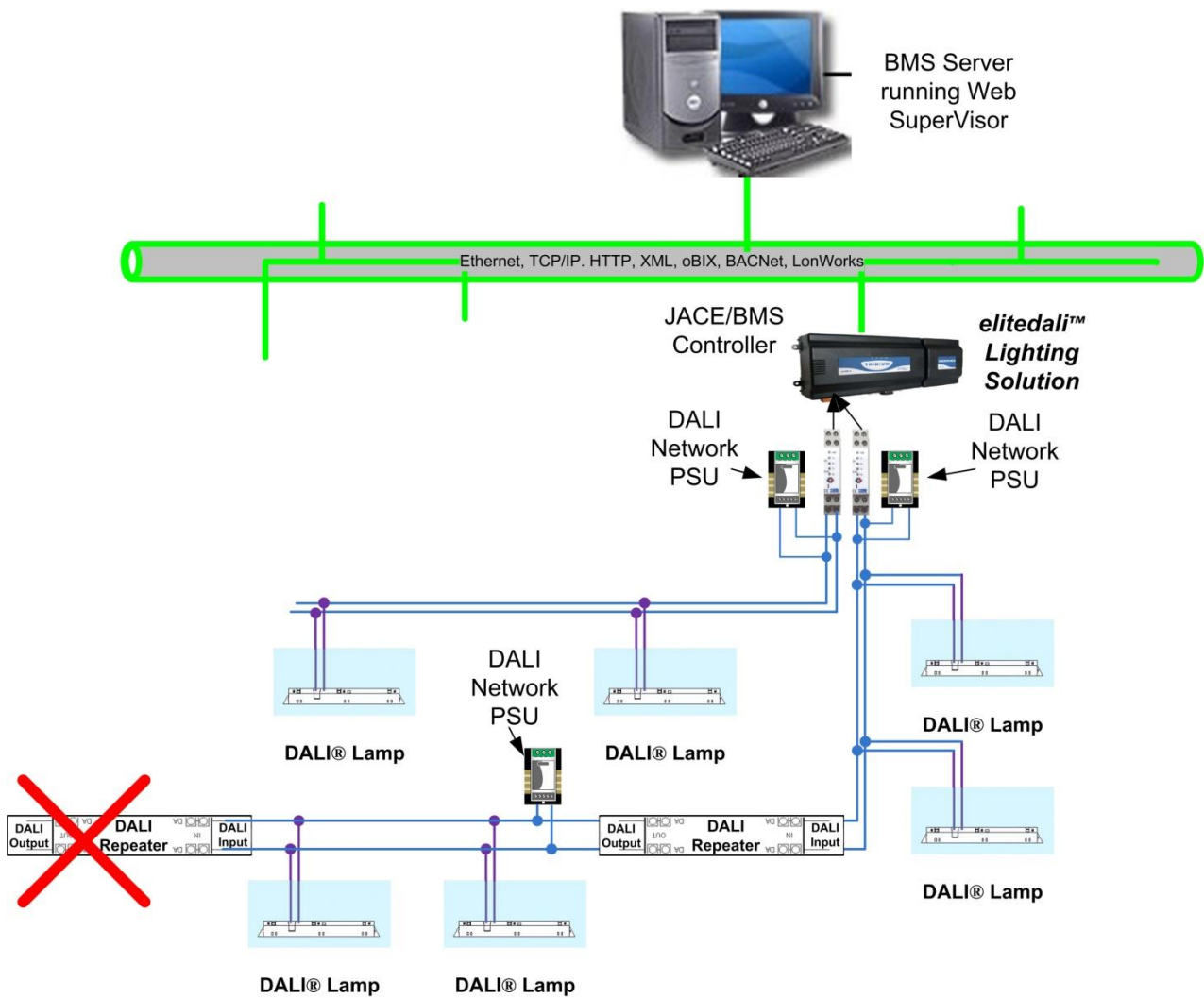
There is no increase in the maximum number of DALI devices you can connect on a single extended DALI network using one DALI Repeater unit. A maximum of 64 DALI devices can be configured on a DALI network (main and subordinate circuit).

There must be one DALI PSU connected to the DALI networks each side of the DALI Repeater.

The DALI signal is not SELV. Installation instructions for low voltage therefore apply.

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The length of DALI network cable after the repeater (subordinate circuit) must not exceed the maximum allowed under the DALI wiring recommendations. For example, a cable of cross-section equal to or greater than 1.5mm² (16AWG) the maximum cable length is 300m (984ft). It is also very important that the maximum drop in DALI network voltage does not exceed 2V anywhere in the network



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Order Details

Description:

elitedali **DALI Repeater**

Part No:

elitedali.TDALIREP

Additional **elitedali** compatible DALI products are also available, [click here](#) for more details.

Contact Details

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