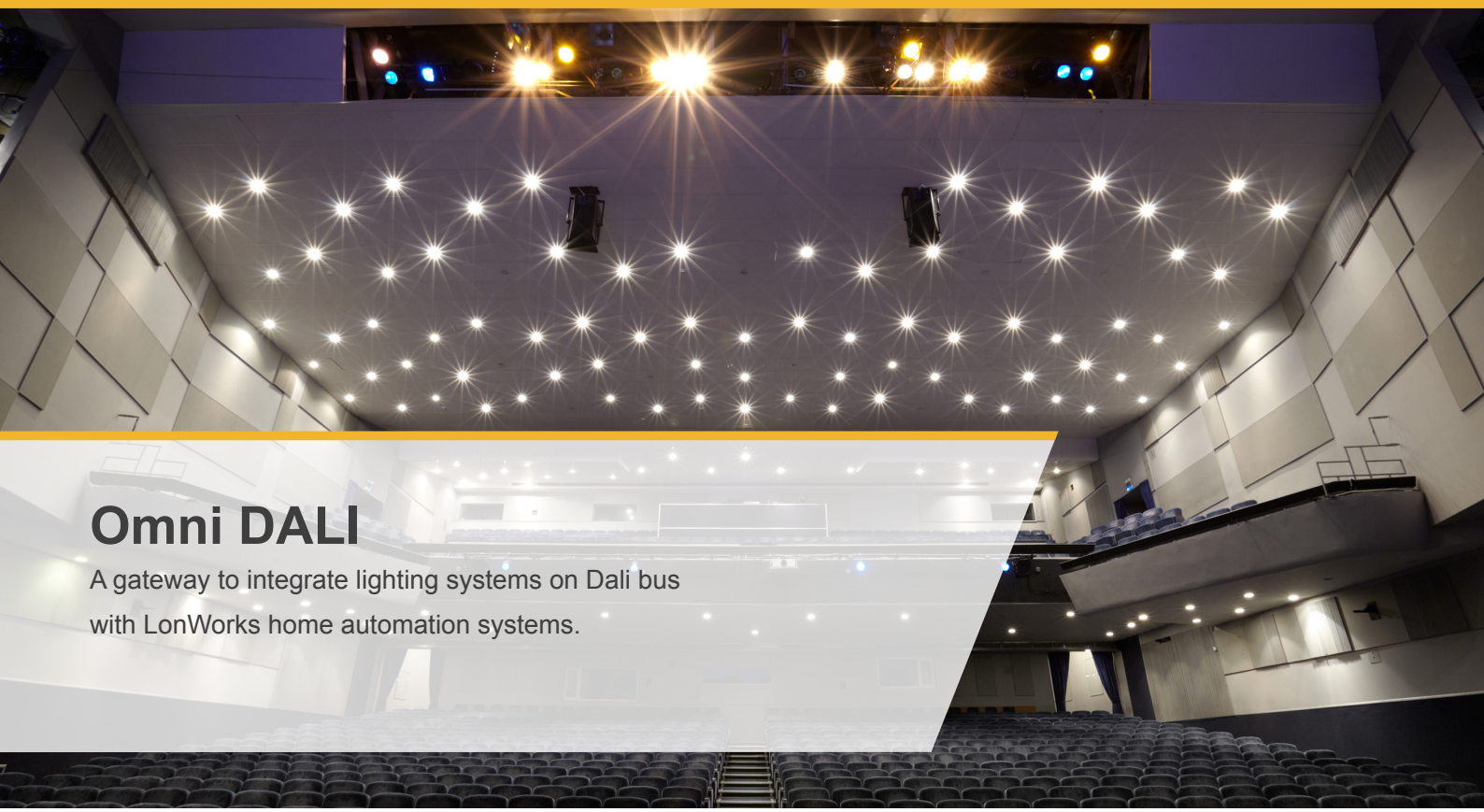
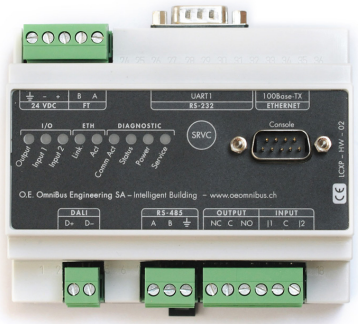


Omni DALI

A gateway to integrate lighting systems on Dali bus
with LonWorks home automation systems.



DESCRIPTION

The OmniDALI gateway allows to integrate products based on the DALI (Digital Addressable Lighting Interface) lighting technology, as defined by the IEC 62386 standard, into a LonWorks system.

OmniDALI acts as a master controller converting the commands from the LonWorks network into appropriate commands for the DALI bus.

Each OmniDALI gateway may control up to 64 DALI devices grouped into a maximum of 16 groups.
For each group, it is possible to execute commands to switch on/off devices, regulate intensity, as well as to memorize and recall scenarios.

OmniDALI is equipped with a LNS Plugin that allows to quickly and easily set the simple operational parameters and to manage the DALI bus using the specific functions to identify and configure the connected DALI devices.

MAIN FUNCTIONS

- Group management using variables type SNVT_switch and SNVT_setting.
- Occupancy indication (Occupancy controller)
- Luminosity management (Light Controller / Constant Light Controller)
- Command priority management (Override)
- Management of static sceneries using variables type SNVT_scene
- Management of time schedules (Work time)
- Automatic lights shutdown
- Control of the state of DALI devices signaling eventual failures
- Gauge for group operations

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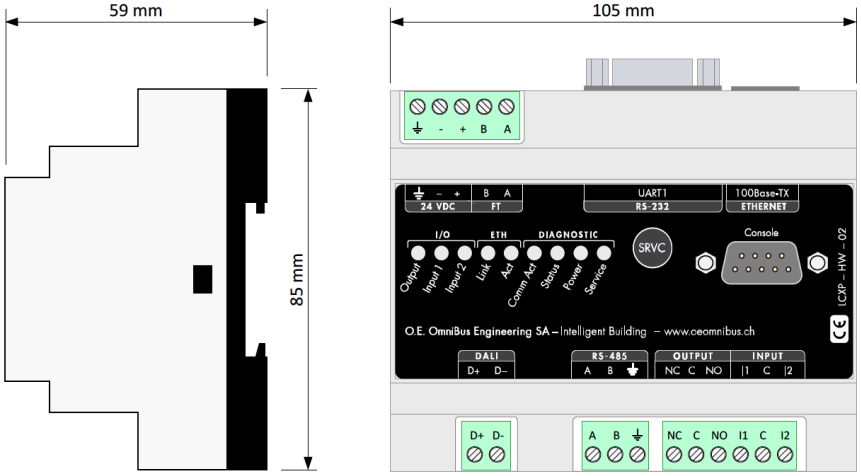
OMNI DALI

Technical specifications

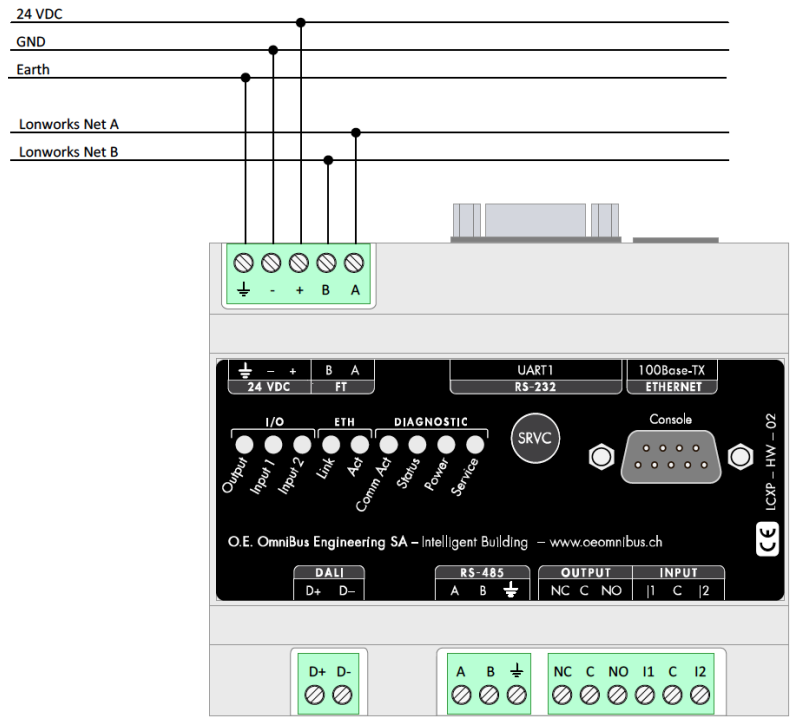
Power supply	21…27 VDC, 0.25 A (Power supply SELV according to regulation EN 60950-1) Removable connector 5-Pin 5.08 mm pitch (shared with Lonworks interface)
Communication interface	Lonworks FTT-10 78Kbps 2- wire without polarity, removable connector 5.08 mm pitch Ethernet 10/100 Mbits, with standard connector RJ45 RS-232 (interface for configuration console), male connector D-SUB 9-pin; DALI, removable connector 2-Pin 5.08 mm pitch (requires an external power supply DALI)
CPU	CPU 32 bits ARM7 LC3020 @ 50 MHz Real Time Clock con backup battery
Memory	8 MB Flash 16 MB SDRAM
Digital outputs	1 relay with NA and NC contacts. Characteristics of resistive loads Maximum switching power 60 W Maximum switching voltage 27 VDC Maximum switching current 2 A Removable connector 6-Pin 5.08 mm pitch (shared with digital inputs)
Digital inputs	2 self-powered inputs (potential free contacts). Removable connector 6-Pin 5.08 mm pitch (shared with digital outputs)
Environmental operating limits	Temperature: 0°…+45 °C Humidity: 10..90% @ +50°C non-condensing
Environmental limits for storage	Temperature: 0°…+45 °C Humidity: 10..90% @ +50°C non-condensing
Container	Polycarbonate container (UL 94 V-0) white (top) and black (bottom) for assembly on a DIN rail
Dimensions	105 x 115 x 60 mm (length x width x height)
Assembly	On DIN rail, according to regulation EN 50022 Do not install outdoors or in humid environments (bathrooms, swimming pools, etc.) if not in containers with proper protection for use.
Disposal	Dispose in compliance with the directives 2002/95 / EC (WEEE devices)

Size and Layout

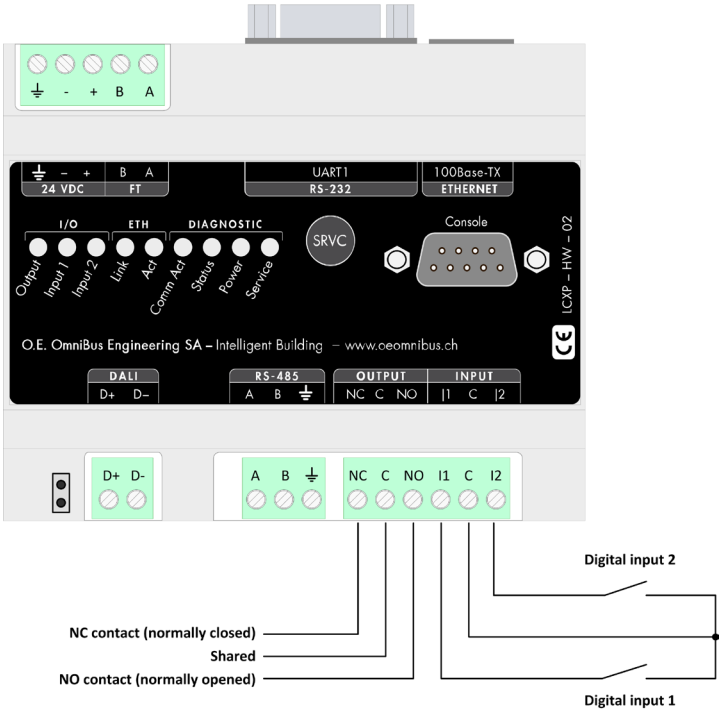


OMNI DALI

Power supply and Lonworks interface

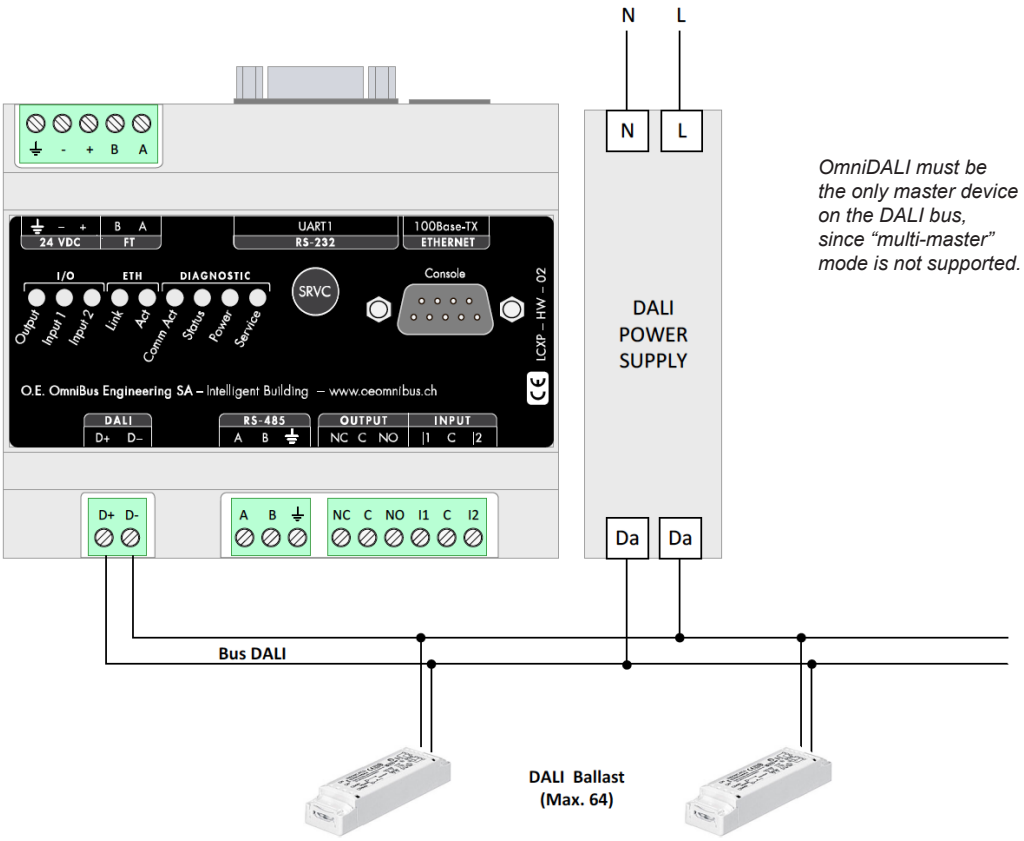


Digital outputs and inputs



OMNI DALI

DALI interface



OmniDALI must be the only master device on the DALI bus, since "multi-master" mode is not supported.