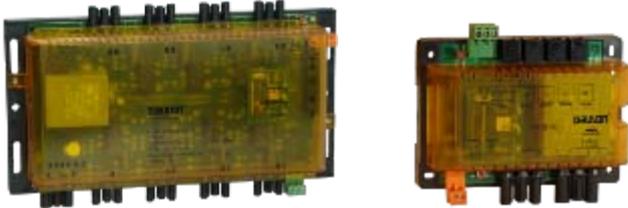


CTR-8LDALI and CTR-DALI-LRx Series

DALI lighting controllers
dalton® range



Overview

DALI lighting controllers are a gateway between the LonWorks network and the DALI network. They enable to control several DALI ballasts groups.

They can work in stand alone mode or connected to a Building Management System (BMS) with an open and interoperable network: LonWorks.

Applications

- The lighting controllers bring an optimized comfort and energy savings within office buildings or open areas.
- Products adapted for a DALI installation: DALI is a standard communication bus (IEC 60929) between a controller and lighting devices. It enables digital control of lighting devices (On / Off, dimming) and monitoring of operating status.
- Used jointly with our graphic configuration software, they build a modular solution in case of repartitioning: no requirements to modify your installation.

Features & Benefits

- The controllers can work in 'stand alone' mode or integrated into a BMS.
- Modular solution: it can be adapted to an office repartitioning.
- One controller to manage lighting in several rooms (depending on your installation).
- Some controllers on the LonWorks network enable the occupancy mode, lighting Lux level, fan speed, temperature set-point and the temperature reading (for a multi-discipline management).
- A comprehensive accessories range that is fully compatible with our controllers: orders emitted by a remote control, presence and Lux level measure information given by multi-sensors.
- Installation on a DIN rail or fixed on the wall.
- All controllers are provided with 'pluggable connectors' for an easier connection in the ceilings.
- All controllers perform positive security by automatically turning ON all the lights when a defect is detected.
- "Pin Service": push button in front of the controllers.
- Window and corridor sides can be controlled independently.
- They enable the operating status and defect detection of each ballast (CTR-DALI-LRx) or each ballasts group (CTR-8LDALI).

For more information about DALI controller's installation, please read the hardware installation guide.

Product Warranty & Total Quality Commitment

All Distech Controls product lines are built to meet rigorous quality standards and carry a two-year warranty. Distech Controls is an ISO 9001 registered company.

DALI Lighting Controllers



CTR-DALI-LR8	DALI lighting controller dedicated to open spaces: 64 ballasts managed divided in 8 groups + sunblind and HVAC variables provided on the LonWorks network
CTR-DALI-LR16	DALI lighting controller dedicated to open spaces: 64 ballasts managed divided in 16 groups
CTR-8LDALI	DALI lighting controller dedicated to offices: 8 power outputs (16 ballasts managed, divided in 8 groups maximum)

Complementary Products

Receivers

Infrared, radio and EnOcean receivers. They receive orders emitted by remote controls.



RIR-I	Transparent infrared receiver (slotted into ceilings)
RIR-L	White infrared receiver and Lux level sensor (slotted into ceilings)
RIR-B	White infrared receiver (slotted into ceilings)
RFR-D	4 channel radio receiver (hidden in ceilings)
RFR-D-ENOCEAN	4 channel EnOcean radio receiver (hidden in ceilings)

Mini multi-sensors

Infrared and radio multi-sensors. Slotted into ceilings, they receive orders emitted with remote controls.



MS2-I-P	Infrared mini multi-sensor: presence detection
MS2-I-PL	Infrared mini multi-sensor: presence detection and Lux level measure
MS2-I-PLT*	Infrared mini multi-sensor: presence detection, Lux level and temperature measures
MS2-R-PL	Radio mini multi-sensor: presence detection and Lux level measure
MS2-R-PLT*	Radio mini multi-sensor: presence detection, Lux level and temperature measures

* The CTR-DALI-LR16 does not send the temperature information on the LonWorks network, so it is not useful to use a MS2-I-PLT or a MS2-R-PLT with this controller.

Multi-discipline and mono-discipline remote controls

Infrared, radio and EnOcean remote controls. Users can adjust lighting parameters in a room.



TCND-I*	White infrared multi-discipline remote control: lighting, sunblind, temperature and fan speed control
TCND-IT-PM*	White infrared multi-discipline remote control with wall-mounted support for fixed TCND: lighting, sunblind, temperature and fan speed control + temperature sensor
TCND-R*	White radio multi-discipline remote control: lighting, sunblind, temperature and fan speed control
TCND-RT-PM*	White radio multi-discipline remote control with wall-mounted support for fixed TCND: lighting, sunblind, temperature and fan speed control + temperature sensor
TCND-ENOCEAN	White EnOcean multi-discipline remote control with wall-mounted support for fixed TCND: lighting, sunblind, temperature and fan speed control + temperature sensor



TCIR-L	Infrared remote control: lighting control
TCIR-L-PM	Infrared remote control with wall-mounted support (fixed remote control): lighting control

* Also available in grey: TCND-I-G, TCND-IT-G-PM, TCND-R-G, TCND-RT-G-PM

Compatible ballasts

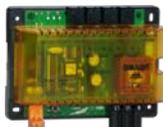
Tested and approved ballasts.



EL1x14si	HELVAR brand
QTI DALI FQ 1-24/24 DIM	OSRAM brand
HF R TD 114-35	PHILIPS brand
HR R TD 254	PHILIPS brand
EL1x49si	HELVAR brand
QTI DALI 4x18 Dim	OSRAM brand
HF R II HF-R TD 254	PHILIPS brand
HF R TD 314	PHILIPS brand

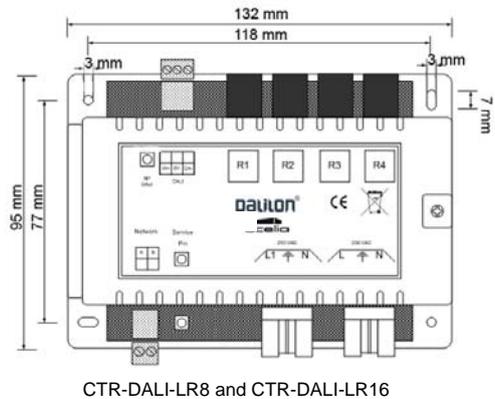
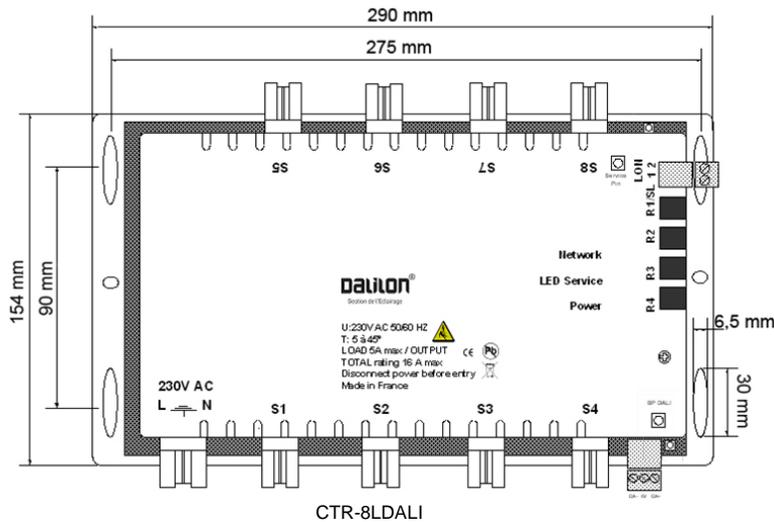
ITR module

Allows the connection of 4 additional receivers, multi-sensors or push-button interfaces to lighting controllers.



ITR	230VAC network interface for additional RJ9 inputs (4 infrared or radio channels)
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Product Specifications



Physical specifications

Material	Polycarbonate
Color	Black plate and yellow cover
Mechanical protection	IP 20
Dimensions without connectors	
CTR-DALI-LR8 and CTR-DALI-LR16	132 x 95 x 45mm
CTR-8LDALI	290 x 154 x 50mm
Shipping box dimensions	
CTR-DALI-LR8 and CTR-DALI-LR16	144 x 135 x 48mm
CTR-8LDALI	300 x 200 x 55mm
Shipping weight	
CTR-DALI-LR8	0.48Kg
CTR-DALI-LR16	0.47Kg
CTR-8LDALI	0.92Kg

Electrical specifications

Power supply	230 VAC 50/60Hz Wieland GST 18i3, male, connector
Starting current	<60A during 2ms
Protection	Fuse or circuit breaker 16A

Connection

Input	4 digital RJ9 inputs
Outputs	
CTR-8LDALI	8 on/off outputs by 230VAC relay
CTR-DALI-LR8 and CTR-DALI-LR16	1 relay output to supply DALI ballasts, 230VAC / 5A max
EMC	EN61000-6-x and EN61000-4-x
Status indicator	Power supply LED Network activity LED Lighting status LED (CTR-8LDALI) DALI network activity LED

Networks

LONWORKS® network	FTT10a, 78 kbps, twisted pair
DALI® network	IEC 62386

Environment

Operating temperature	+5°C to +45°C
Storage temperature	-20°C to +70°C
Relative humidity	+20 % to +90 % without condensing
Security	EN60669-2-1

Tested at ambient temperature (20°C)

Specifications subject to change without notice.

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