O3-DIN

O3-DIN-DALI: DALI Lighting Module

Description

The O3-DIN-DALI is a DALI® (Digital Addressable Lighting Interface) lighting module for the O3-DIN system. The DALI lighting module provides connectivity between your BACnet® building automation system and the DALI lighting groups installed in the same system.

DALI is the most flexible approach to lighting solutions where control is configured down to a single ballast level. A DALI system is also cost effective due to its built-in power supply and straightforward wiring. Easy reconfiguration of lamps gives complete control to the lighting design.

Application

The O3 is a complete solution that combines HVAC, access control and lighting control in a modular system. One or more DALI lighting modules in an attached central configuration can manage up to 16 DALI groups per module, integrating these groups into the overall BACnet building automation system.

The DALI lighting module is suitable for controlling up to 64 dimmable ballasts or LED drivers per module. Designed for in-ceiling mounting, control is situated close to devices and results in more efficient wire runs. The internal power supply also means no need for extra wiring or power supply in a room-sized system.

Features

▶ Supports up to 64 DALI addresses

▶ Supports 16 groups and 16 scenes, simplifying control of related lights and providing a wide range of brightness settings

▶ Software-controlled 100 mA DALI bus power supply

▶ LED status indicators for power, module status and communication bus activity

▶ DIN EN 50022-35x7.5 compliant

Specifications

External Inputs
2 push buttons for Manual ON/OFF and Auto control

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

Power
24 VDC, 4 W max fully loaded*
* Module power is internally supplied from the O3-DIN controller through the module bus port.

DALI Power
Guaranteed DALI current: 100 mA @ 16 V
Max DALI current: 150 mA
Software-controlled power supply

Communication Port
2-pin DALI communication port

Ambient Rating
−30°C to 55°C (−22°F to 131°F)
10% to 95% RH (non-condensing)

Dimensions
36 × 111 × 58 mm (1.42 × 4.37 × 2.28 in.)

Weight
70 g (0.15 lb)
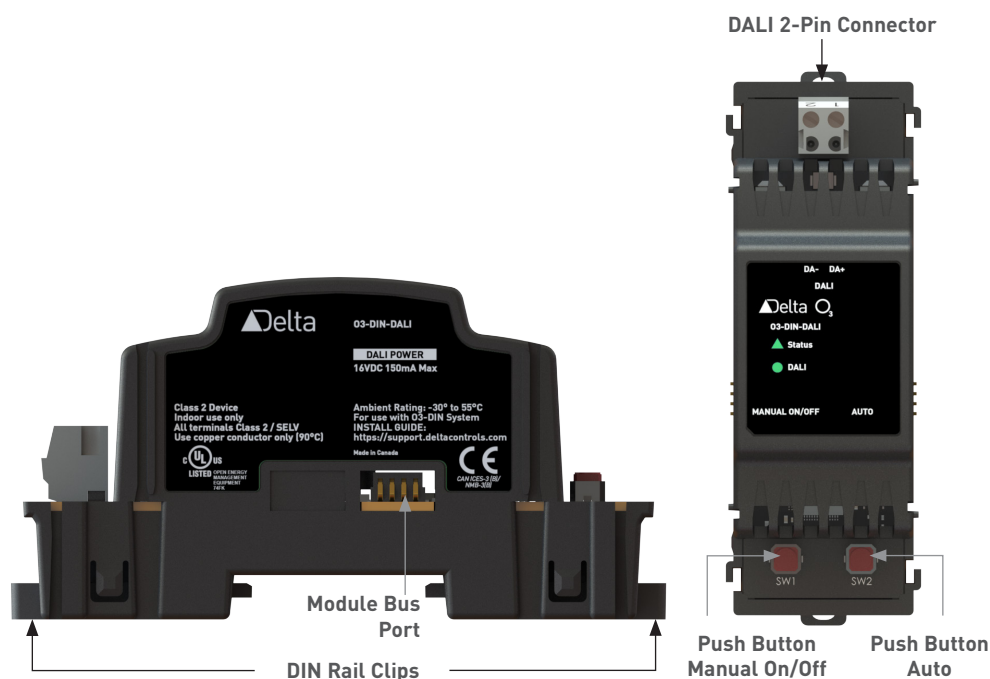
Compliance
CE
FCC
EAC

Listings
C-UL Listed
UL 916 Listed

DALI is a registered trademark of ZVEI (German Electrical and Electronic Manufacturers' Association). BACnet is a registered trademark of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

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DALI 2-Pin Connector

Module Bus Port

DIN Rail Clips

Push Button Manual On/Off

Push Button Auto

Order an O3-DIN system base unit with one or more modules or hubs:

Base Units

O3-DIN-CPU	CPU base unit: 3 network ports, 2 Ethernet ports, 3 power outputs, Modbus RTU, NFC
O3-DIN-SRC	CPU base unit: 2 network ports, 2 Ethernet ports, 1 power output, Modbus RTU, NFC

Modules and Hubs

O3-DIN-DALI	DALI lighting module: DALI interface, 100 mA power output
O3-DIN-4F4xP	FET I/O module: 4 universal I/O, 4 FET binary outputs
O3-DIN-8xP	I/O module: 8 universal I/O, input (0–10 V, 0–5 V, 10K) or output (20 mA source, 10 mA sink)
O3-DIN-ACCESS	Access module, single door support
O3-DIN-PoE	Power over Ethernet module
O3-DIN-PWRINJ	Power injector module for O3 expansion
O3-DIN-SMI	SMI module for motorized blinds: SMI interface, 30 mA power output
O3-HUB	Sensor hub (temperature, humidity, light, motion, Bluetooth, LED ring, microphone and speaker) with mounting plate
O3-HUB-En868	Sensor hub (temperature, humidity, light, motion, Bluetooth, EnOcean 868 MHz, LED ring, microphone and speaker) with mounting plate
O3-HUB-En902	Sensor hub (temperature, humidity, light, motion, Bluetooth, EnOcean 902 MHz, LED ring, microphone and speaker) with mounting plate

Subject to change without notice.

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Power Supplies

DRC-24V30W1AZ	Chrome Line Voltage DC power supply 24 V 30 W Class A EMC
DRC-24V60W1AZ	Chrome Line Voltage DC power supply 24 V 60 W Class A EMC
DRC-24V100W1AZ	Chrome Line Voltage DC power supply 24 V 100 W Class A EMC
DRS-24V30W1NZ	Sync Line Voltage DC power supply 24 V 30 W Class B EMC
DRS-24V50W1NZ	Sync Line Voltage DC power supply 24 V 50 W Class B EMC
DRS-24V100W1NZ	Sync Line Voltage DC power supply 24 V 100 W Class B EMC

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