

# IMS3D0-10VRLY

IMS Enabled DALI-2 Relay Module & DALI to 0-10V Converter

## Product Description

The IMS3D0-10VRLY is a DALI-2 to 0/1-10V converter, enabling 0/1-10V loads to be controlled via DALI communication systems. Controlling one standard contactor or 2,770VA of fixtures, the IMS3D0-10VRLY allows fixtures without a DALI input to be integrated into a DALI circuit. Powered via the DALI bus, it is compatible with the NICOR IMS 3.0. The device supports the DALI specification IEC 62386-208 (Device Type 7, "switching function") for non-dimmable loads and the DALI specifications IEC 62386-206 (Device Type 5, "converter") for loads dimmable via the 1 – 10 V interface, respectively (max. 50 mA current sink).

### Construction

- Housing of ABS material

### Electrical

- Potential-free, bi-stable relay make contact
- Configurable relay position in case of power loss
- Zero cross switching function
- 1 DALI-2 interface
- 1 0-10VDC interface
- Powered via DALI bus (DALI-voltage according to IEC62386 (2014))
- 120-277VAC switched relay output
- Rated load of 300W total power
- Max load 10A, 277VAC (Electronic Ballast)

### Control

- 1 DALI address can be assigned by DALI master controller
- Control of one standard contactor via DALI protocol
- Compatible with the NICOR IMS3 DALI controller

### Environmental

- Operating Conditions 32°F to 122°F (0°C to 50°C)
- Relative Humidity 10-90% non-condensing
- IP20 rated

### Mounting and Installation

- 1/2" NPT nipple for connection to junction box.
- Terminals handle 26-16 AWG wire

### Listings

- cULus Listed
- RoHS Compliant
- DALI Alliance certified
- IP20 rated

### Warranty

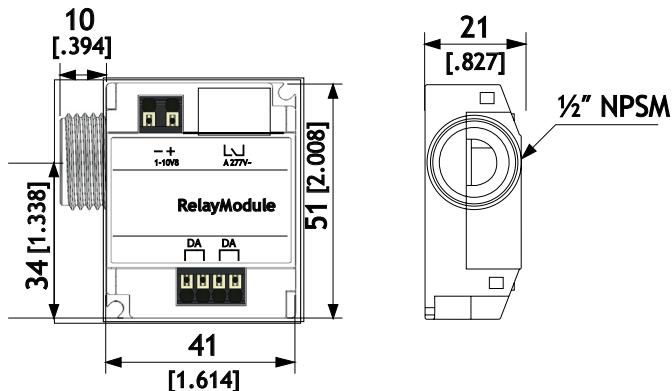
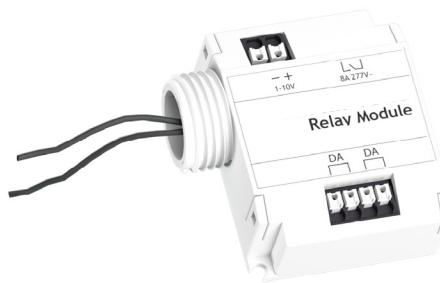
- 3-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)

Project

Catalog

Type

Date



## Ordering Information

### Series

IMS3D0-10VRLY

Specifications and dimensions subject to change without notice.



# IMS3D0-10VRLY

IMS Enabled DALI-2 Relay Module & DALI to 0-10V Converter

Specifications	
Dimensions	2" x 2" x 0.83" (51 x 51 x 21mm)
Rated Impulse Voltage	2500V
Overvoltage category	II
Power Supply	DALI bus, idle 3.5mA / 3mA (1-10V connected / not connected)(@16VDC) Typ. 6mA (@16VDC), max 11mA (inrush current)
Operating Conditions	0°-50°C, 10-90% RH, non-condensing. Degree of protection: IP20
Interfaces	1 x DALI, protected against overvoltage (mains voltage) 1 x Analog interface (1-10V)
DALI protocol conformance (IEC 62386 parts)	101 ed2, 102 ed2, 208 ed1 (switching) in operating mode 0x0 101 ed2, 102 ed2, 206 ed1 (converter) in operating mode 0x80
Connection wires profile	AWG 24-16
Wire stripping length	0.31 in (8mm)
Max switching power	2500VA @ 250V AC, 300W @ 30V DC
Nominal switching capacity AC	10A, 120V AC (general purpose); 30,000 cycles 10A, 250V AC (resistive); 100,000 cycles 10A, 277 V AC (electronic ballast); 6,000 cycles 8A, 277V AC (general purpose); 30,000 cycles
Nominal switching capacity DC	10A, 30V DC
Relay contact switching voltage	120-277V AC / 30V DC
Switching cycle	150,000
Min. switching interval	500 ms
Max average switching frequency	20 times/min
Interface (1-10V)	Current sink max. 50mA Output voltage range; 0.5 - 10V
Certificates	DALI-2, cULus