



rSI

nLight® AIR System Input Device



Wireless Convenience Extends to Third-Party Integration

Integration between systems can be costly. The nLight AIR System Input Device (rSI) converts analog device outputs (0-10V) and dry contact outputs to wireless, nLight AIR broadcasts to control intelligent luminaires and other lighting control devices. This reduces cost and wiring associated with fire alarms, security alarms, pillow switches, specialized switches for harsh environments, and many other interfaces.

Features

- Universal Inputs:** Each device has two isolated inputs that connect with 0-10V or dry contact outputs.
- Versatility Through Customization:** A variety of programming options determine how the rSI responds to third party outputs.
- Local or System Wide Inputs:** Broadcast messages locally or across an entire network of devices. The number of devices affected is decided by programming, maximizing cost savings and versatility in the field.
- LED Status Indicators:** Intuitive LED indicators identify if an output is detected, allowing for quick confirmation that wiring and installation has been completed correctly.
- Intelligently Selects Wireless Frequency:** nLight AIR avoids interfering with other active systems and equipment by scanning and selecting 900MHz frequencies with the least traffic.
- BACnet:** Communicates contact and 0-10V statuses through BACnet for consumption by HVAC and BMS systems.



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Application Details

Below are common applications for the rSI – nLight AIR system input device.

Patient Room Pillow Switches

A pillow switch momentary contact can be used to turn fixtures on and off and to raise and lower light levels, all without the need for a secondary contact. Programming flexibility allows the rSI to work with single and double-pole pillow switches for any of these functions, providing control via the pillow switch while allowing other nLight AIR switches to control the same loads in three-way.

Outdoor and Harsh Environment Switches

The rSI works with maintained and momentary, off-the-shelf dry contact switches designed for direct water spray (e.g., washdown rooms), impact-resistance (e.g., correctional facilities), and extreme temperatures (e.g., freezers or outdoor environments).

Fire and Security Alarms

Converts dry contact alarm outputs to wireless broadcasts, temporarily overriding the operation of relevant control devices while the alarm signal is active. Settings updates can be written to any device connected to an nLight ECLYPSE™ system, turning fixtures ON and ignoring non-emergency messages in a single room or all across a system.

Renovations of Existing Lighting Systems

Integrate nLight AIR with existing lighting controls by wiring the rSI to existing 0-10V or dry contact outputs, allowing nLight AIR devices to be controlled by third-party controls.

Third-Party Analog Sliders

New and existing sliders can control nLight AIR enabled luminaires and lighting control devices by varying 0-10V levels.

Open Loop Photocell

The rSI wires to proportional (0-10V) and disproportional (10-0V) photocells. Dimming curve and on/off transition times are adjustable via programming.

