

Overview

Eliminate Low Voltage Home-Runs

Digi-Touch™ improves the functionality of Lumisys panels and Qwik-Kits by providing the capability of networking digital switches over a single twisted pair of wires. This twisted pair network is the Lumisys Digi-Touch Network.

The idea is that we can put more devices on the digital subnet and serve them with a higher throughput all while maintaining soft configurability as an integral part of the Building Automation System. With Digi-Touch on an Lx5 platform, installers, energy managers and users experience a dramatic improvement over standard switching and occupancy methods.

Significantly less wire needs to be run and maintained when utilizing a Digi-Touch Network as compared to a traditional wiring process; thereby reducing installation costs by eliminating the need for multiple low voltage and line voltage home run wiring.

Digi-Touch Digital Switches

- Provide pushbutton for on and off control of 2 lighting groups
- Can be one of many switches controlling the same group.
- Mount in standard single or multiple gang wall switch box.
- Fit industry standard Decora® opening.
- Contain an integral bi-color LED that illuminates red when the associated lighting group is on and green when off.
- Provide a removable clear cap on the pushbutton for placement of a descriptor to identify the area controlled.
- Dip switch sets the lighting group it controls.
- Have removable terminal blocks to simplify installation.

Digi-Touch Input Module

- Almost any type of "2-wire" contact closure
 - Wet/dry
 - Momentary/maintained
- Occupancy Sensors:
 - Hubble ATP1500CRP
 - Novitas 01-BAS300
 - Sensor Switch CM9
 - Sensor Switch CM9PDT
 - Spy-Sensor SS-100
 - Watt Stopper CI-200
 - others, check with your account representative

Components of the Lumisys Digi-Touch™ Network.



DDN-SW1



DDN-SW2

Digi-Touch Switches

A maximum of 30 uniquely addressable Digital Switches can be connected on a Digi-Touch Network (actual number may vary depending on the network wire gauge and voltage drop)

Digi-Touch Input Module

Make a standard switch or occupancy sensor into an addressable one!



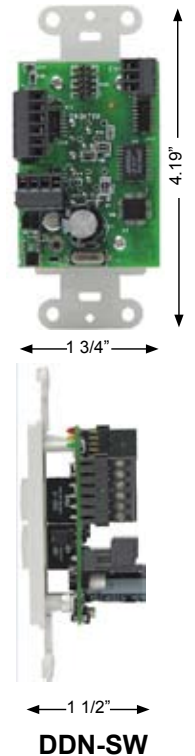
Specifications:

Electrical

Supply:	DDN-SW1 and SW2 - Recommend: 24 VDC, 1.2 A for every 40 buttons. Example: one 24 VDC, 1.2 A supply for 15 DDN-SWs and 10 DDN-SW1s.
Status LEDs:	Transient protected two wire differential signaling.
Field wiring:	4-wire conductor: Signal 2 x 22 AWG twisted Power 2 x 18 AWG Recommended: Belden 1502P, 4-wire cabler
Network:	Transient protected two-wire differential signaling. Transmit (red), Receive (green), Busy (yellow) LEDs are provided for diagnostics.

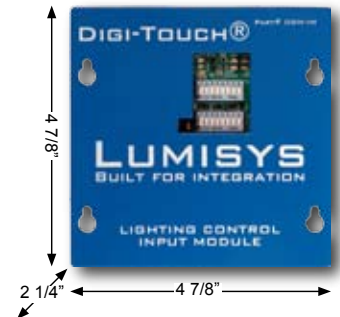
Mechanical

Dimensions:	DDN-SW1 and DDN-SW2 -1.75"W x 4.19"H x 1.50"D (see figures to the right) DDN-IM - 4 7/8" x 4 7/8" x 2 1/4" and is designed to fit in a standard 411 electrical box
Mounting:	The unit is designed to mount in a 16 in3 single gang electrical box. The mounting frame installs in a "Decora" 6mm or thicker type wall plate. Cover plate not included.
User Interface:	One or two .6 " square LED Illuminated momentary push-button switches. Switches illuminate Red when lights are on and Green when lights are Off. Removable caps are provided for legends.
Dip Switch:	The switch controls a lighting group which is selected using an 8 position DIP switch. Dip switch is accessible when the Decora style cover plate (not included) is removed.



Environmental

Operating Temperature:	32° to 125°F
Operating Humidity:	20% - 95% RH, Non-condensing



Ordering Information

Category	Catalog #	Description
Input Module	DDN-IM	Lumisys Digi-Touch Input Module
Switches	DDN-SW1	Lumisys Digi-Touch 1-Button Digital Switch (single gang)
	DDN-SW2	Lumisys Digi-Touch 2-Button Digital Switch (single gang)
Power Supplies	SLS-24-012T	Optional external power supply, 24 VDC, 1.2 A w/ 1 A fuse Power up to 40 elements of a Digi-Touch network (exaple below) 40 DDN-SW1 / 20 DDN-SW2, 20 DDN-IM or 20 occupancy sensors (or equivalent combinations)
	SLS-24-024T	Optional external power supply, 24 VDC, 2.4 A w/ 1.5 A fuse Power up to 60 elements of a Digi-Touch network (exaple below) 60 DDN-SW1 / 30 DDN-SW2, 30 DDN-IM or 30 occupancy sensors (or equivalent combinations)

