

Sensor Integration Module

The GLS-SIM is a compact interface device designed to allow Crestron Green Light® sensors to be connected directly to a Cresnet control network. Cresnet® is the communications backbone for Crestron sensors, dimmers, keypads, touchpanels, shade controllers, thermostats, and many other devices. This flexible 4-wire bus provides data communications and 24 Volts DC power for all of the devices on the Cresnet network. The GLS-SIM installs easily at the sensor location, mounting conveniently inside the electrical box or exposed above the ceiling. Wiring connections to the network and sensor are facilitated using miniature screw terminals.

The GLS-SIM is compatible with Crestron GLS-series sensors, as well as with most 24 Volt-powered sensors from any manufacturer. Up to 1A @ 24VDC power is available^[1] to support multiple sensors in parallel. The GLS-SIM actually includes two sensing inputs, each capable of sensing a contact closure, logic level, or 0-10V analog signal. When used with a Crestron IPAC or iLux® system, setup is simplified using onboard DIP switches to select the sensor type (i.e. occupancy, photocell, partition, etc.) and operating mode (i.e. normally-open or normally-closed).

- > Provides Cresnet® connectivity for Crestron GLS-series and third-party sensors
- > Works with occupancy sensors, photocells, partition sensors, and more
- > Provides 24 Volts DC to power one or more sensors
- > Includes 2 independent sensing inputs
- > Supports contact-closure, DC logic, and 0-10V analog signals
- > Onboard DIP switches simplify setup for use with IPAC and iLux® systems
- > Allows fully-programmable operation as part of any Crestron system
- > Compact module fits in an electrical box behind the sensor
- > Miniature screw terminals facilitate reliable wiring connections

SPECIFICATIONS

Connectors

NET: (1) 4-pin 5mm detachable terminal block;
Cresnet slave port, connects to Cresnet control network
SENSOR: (1) 4-pin 3.5mm detachable terminal block;
Sensor input comprised of 24VDC power output and (2) digital or analog input ports (referenced to GND);
Digital Input: Rated for 0-24 Volts DC, input impedance 20k ohms, logic threshold 1.25 Volts DC;
Analog Input: Rated for 0-10 Volts DC, protected to 24 Volts DC maximum, input impedance 20k ohms;
Programmable 5 Volts, 2k ohms pull-up resistor per pin;
Maximum Power Load: 1 Amp @ 24 Volts DC^[1]

Controls

ID CODE: (2) Rotary DIP Switches;



LED Indicators

PWR: (1) green LED, indicates 24 Volts DC power supplied from Cresnet control network

NET: (1) yellow LED, indicates communication with Cresnet system

SETUP: (1) red LED, used for touch-settable ID (TSID)

Environmental

Temperature : 32° to 104°F (0° to 40°C)

Humidity : 0% to 95% RH (non-condensing)

Power Requirements

Cresnet Power Usage: 1 Watt (0.04 Amps @ 24 VDC) (Does not include power draw of attached devices.)

Dimensions

Height: 2.00 in (51 mm)

Width: 2.00 in (51 mm)

Depth: 0.86 in (22 mm)

Weight

2 oz (46 g)

Available Models

GLS-SIM: Crestron Green Light™ Sensor Integration Module

Available Accessories

GLS-LCL: Crestron Green Light™ Photocell, Closed-Loop

GLS-LOL: Crestron Green Light™ Photocell, Open-Loop

GLS-ODT-C-500: Crestron Green Light® Dual-Technology Ceiling Mount Occupancy Sensor, 500 Sq. Ft

GLS-ODT-C-1000: Crestron Green Light® Dual-Technology Ceiling Mount Occupancy Sensor, 1000 Sq. Ft.

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GLS-ODT-C-2000: Crestron Green Light® Dual-Technology Ceiling Mount Occupancy Sensor, 2000 Sq. Ft.

GLS-ODT-W-1200: Crestron Green Light® Dual-Technology Wall Mount Occupancy Sensor, 1200 Sq. Ft.

GLS-OIR-C-450: Crestron Green Light® Passive Infrared Ceiling Mount Occupancy Sensor, 450 Sq. Ft.

GLS-OIR-C-1500: Crestron Green Light® Passive Infrared Ceiling Mount Occupancy Sensor, 1500 Sq. Ft.

GLS-OIR-W-2500: Crestron Green Light® Passive Infrared Wall Mount Occupancy Sensor, 2500 Sq. Ft.

GLS-LEXT: GL,SENSOR,LIGHT,EXTERIOR

GLS-PART: GL,SENSOR,PARTITION

CRESNET-HP-NP-TL-SP1000: Cresnet® "High-Power" Control Cable, non-plenum, teal, 1000 ft spool

CRESNET-HP-NP-TL-SP500: Cresnet® "High-Power" Control Cable, non-plenum, teal, 500 ft spool

CRESNET-NP-BK-B500: Cresnet® Control Cable, non-plenum, black, 500 ft box

CRESNET-NP-OR-B500: Cresnet® Control Cable, non-plenum, orange, 500 ft box

CRESNET-NP-TL-B250: Cresnet® Control Cable, non-plenum, teal, 250 ft box

CRESNET-NP-TL-B500: Cresnet® Control Cable, non-plenum, teal, 500 ft box

CRESNET-NP-TL-SP1000: Cresnet® Control Cable, non-plenum, teal, 1000 ft spool

CRESNET-NP-TL-SP500: Cresnet® Control Cable, non-plenum, teal, 500 ft spool

CRESNET-NP-YL-B500: Cresnet® Control Cable, non-plenum, yellow, 500 ft box

CRESNET-P-BK-SP500: Cresnet® Control Cable, plenum, black, 500 ft spool

CRESNET-P-OR-SP500: Cresnet® Control Cable, plenum, orange, 500 ft spool

CRESNET-P-TL-SP1000: Cresnet® Control Cable, plenum, teal, 1000 ft spool

CRESNET-P-TL-SP500: Cresnet® Control Cable, plenum, teal, 500 ft spool

CRESNET-P-YL-SP500: Cresnet® Control Cable, plenum, yellow, 500 ft spool

Notes:

1. Actual load capability dependent upon the amount of available Cresnet power in the system.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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