

# MASTER 810 & 2410

## Sensor Networking Hubs

The Master 810 and 2410 network controllers easily distribute power, synchronization, and laser safety for up to 24 sensors. Designed for greater flexibility, these next generation controllers provide uplink/downlink ports for daisy chaining, and support for differential or single-ended encoder and digital I/O.

- SYNCHRONIZED WITHIN 1  $\mu$ s ACCURACY
- ALL-IN-ONE CABLING
- BUILT-IN LASER SAFETY CONTROL



### ENHANCED ENCODER AND INPUT SUPPORT

Supporting a wide variety of encoder and input configurations, the Master hub distributes signals to all sensors by broadcasting them over a dedicated synchronization protocol.

### POWER & SAFETY

These next-generation Masters support 24- and 48-volt power supplies. Built-in laser safety control allows the Master to easily disable/enable all sensor laser outputs, making it simple to implement safety lockout solutions.

### MOUNTING OPTIONS

Compact design, supporting either DIN rail mounting or 1U rack mounting.

### ALL-IN-ONE CABLE

Simplify cabling with a single dual CAT5e, shielded cable per sensor for power, synchronization, safety, and data. Data connects to a Gigabit Ethernet switch (not included).

### LED INDICATORS

LEDs indicate power for each port, in addition to encoder and I/O status.

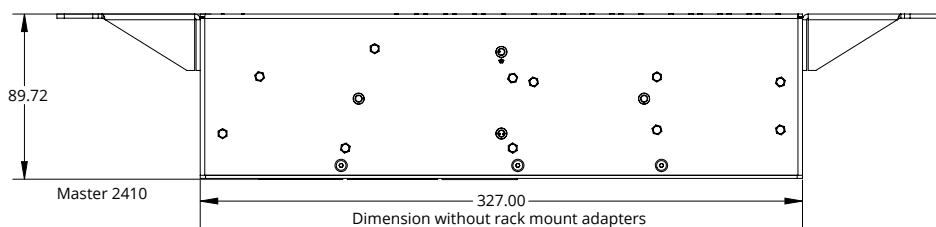
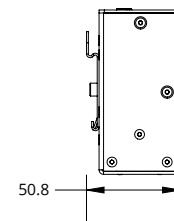
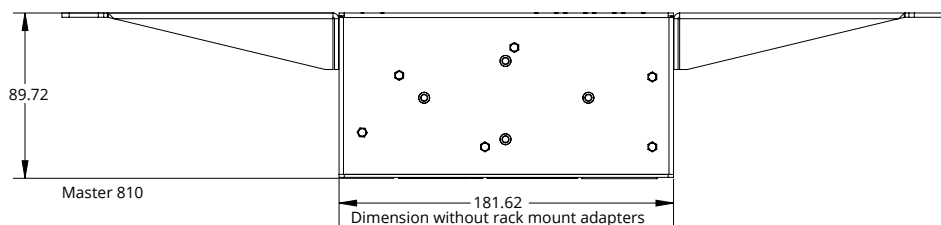
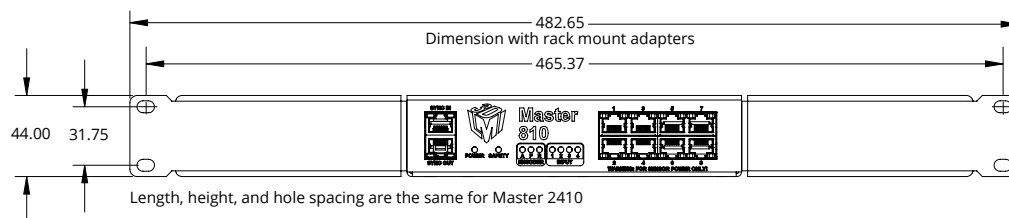
## Master 810 & 2410

Input Voltage (Power)	+24-48 VDC (2 Watts)*
Total Power	Master 810 / 2410 input power + (sensor input power x number of sensors)
Capacity	Master 810: up to 8 sensors Master 2410: up to 24 sensors
I/O	4 digital inputs** Single-Ended Active LOW: 0 to +0.8 VDC Single-Ended Active HIGH: +3.3 to +24 VDC Differential LOW: 0.8 to -24 VDC Differential HIGH: +3.3 to +24 VDC 10-pin Phoenix
Encoder	Differential (5 VDC, 12 VDC) Single-ended (5 VDC, 12 VDC)*** 11-pin Phoenix connector
LED Indicators	Safety, power, encoder, input
Cable	Dual CAT5e cable for power / safety / synchronization / data

\* Refer to sensor datasheets for additional power required by sensors.

\*\* Gocator only supports one digital input.

\*\*\* Supports open collector, pull-up resistor, line driver, push-pull, and TTL.



**AMERICAS**  
LMI Technologies Inc.  
Burnaby, BC, Canada

**EMEAR**  
LMI Technologies GmbH  
Teltow/Berlin, Germany

**ASIA PACIFIC**  
LMI (Shanghai) Trading Co., Ltd.  
Shanghai, China



LMI Technologies has offices worldwide. All contact information is listed at [lmi3d.com/contact/locations](http://lmi3d.com/contact/locations)