

Zone Monitor 3000 Safety Mat Control Unit



The power of control. Automated.

The Zone Monitor 3000 Safety Mat Control Unit offers a sophisticated mix of advanced safety mat system monitoring and simple dependability.

Designed for the toughest industrial environments, the Zone Monitor 3000 provides individual mat status indicators for up to four Larco safety mats through high-visibility LEDs. In addition, the Zone Monitor 3000 can accommodate a variety of power requirements and is designed to meet or exceed CE, UL and CUL safety system requirements.

The Zone Monitor 3000 is designed to be a solution to all of your industrial safety mat applications by providing safe, accurate, and timely notifications.



Connects 1 - 4 Mats



Features and Benefits

- Accepts and monitors from 1 to 4 safety mats without junction boxes
- Accommodates 3 power inputs
- Indicates open circuits on individual mats
- Robust and dependable design
- Multiple operation modes and input voltage options to fit most plant requirements
- Easy wiring and setup with quick disconnect wiring option

ZONE MONITOR TECHNICAL SPECIFICATIONS

Response Time:	: <30 milliseconds
Indicators:	
Run	Green LED
Stop	Red LED
Mat Status	4 Mat Activated Red LEDs, 4 Mat Disconnected Yellow LEDs
Relay Fault	Internal Yellow LED
Operational Modes	Selectable Automatic Restart and Guard Only Modes
Power Input	120 VAC (for 60Hz), 240 VAC (for 50Hz) or 24 VDC
Rated Supply Current	0.125A AC, 0.75A DC
Safety Inputs	Screw Clamp Connections For Up to Four 4-wire Safety Mats With Up to 40' Cord Length Each (quick disconnect mat connections also available)
Safety Output Relays	Two Captive Contact Relays with Two Closed When Run(NO) and One Open When Run (NC) Sets of Contacts Rated 8 amps at 230 VAC
Standards of Conformity	Designed to Meet UL 508 Standard for Industrial Control Equipment, ANSI B11.19, Performance Criteria for Safeguarding, OSHA 1910.212 General Machine Guarding, ANSI/RIA 15.06 Industrial Robots and Robots Systems-Safety Requirements, EN/IEC 60204 Electric Equipment of Machines and ISO 13856-2 Safety of Machinery - Pressure-sensitive Protective Devices
Replaceable Relay Pack Life	Mechanical 10,000,000 Operations; Electrical 500,000 Operations at 1 amp at 240 VAC
Electrostatic Discharge (ESD)	+/-10kV(air discharge), +/-6kV (contact discharge)
Radiated RF Field	10 volts/meter, 100 to 1,000 MHz
Electrical Fast Transients (EFT)	+1kV (power supply), 0.5kV (control signal)
Operating Temperature	32°F to 121°F (0°C to 50°C)
Relative Humidity	20-90% Acceptable Range
Restart Function	Selectable Manual or Automatic Restart; Internal/Lockout Restart and External/Remote Restart Available
Reset Function	Power-up/Relay Fault Reset Internal Manual Pushbutton
Enclosure	Steel (powdercoat machinery black)
Nominal Size	8" H x 6" W x 4" D (203 mm x 152 mm x 102 mm)
Enclosure Rating	NEMA 12, IP 65
Mounting	Surface Mount
Shipping Weight	9 lbs

ORDERING INFORMATION

Zone Monitor 3000	Part #0023482400
Zone Monitor 3000QD	Part #0023483500

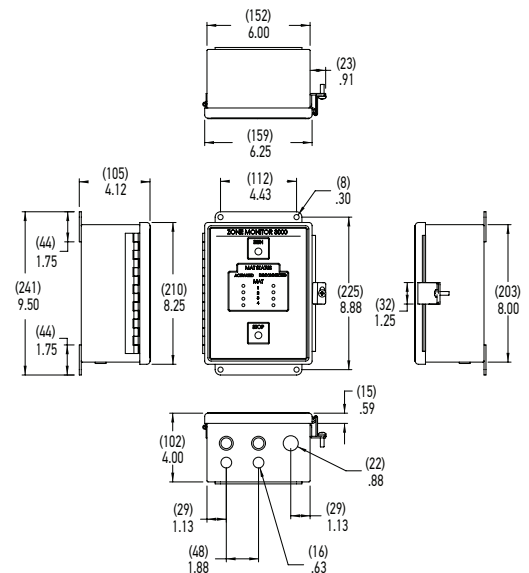
WARNING! Usage of safety mats and safety mat devices is governed by each user's local codes and applicable industry standards. Improper usage of these devices could result in severe injuries. In the event that Larco safety mats do not prevent all access to the hazardous operation, the unprotected access must be guarded by other appropriate safeguarding devices or barriers.

* The Larco Zone Monitor 3000 is only one part of a safety mat system, which also includes safety mats and mounting trim.



Applications

- Robotic Welding
- Load/unload station
- Assembly machinery
- Pick and place robots
- Packaging machinery



View the full product line at Larco.com

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WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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