

Laser-View Technologies

Smart non-contact measurement solutions for industry

CRANE SENTRY®



205 Byers Road
Chester Springs, PA 19425

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Email: info@laser-view.com
www.laser-view.com



Crane Sentry® Lite—The best entry level choice.

Performance

- ▶ <3.5 in accuracy
- ▶ Indoor/outdoor use
- ▶ Up to 98 ft (30 m) range
- ▶ Real distance values— not a proximity sensor



Features

- ▶ Connects 2 lasers
- ▶ Class II eye safe visible laser
- ▶ Modular, versatile system



Configuration

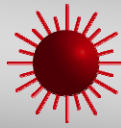
- ▶ Plug & play set up
- ▶ Simple 2 line display
- ▶ Enter set points
- ▶ 2 configurable outputs/laser



Installation/Maintenance

- ▶ IP 65 protection
- ▶ Low maintenance
- ▶ Quick aim & set installation





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CRANE SENTRY LITE LASER COLLISION MONITORING SYSTEM

Laser Collision Monitor Controller model CR8201-1/CR8201-2

- ▶ Connects as many as (2) Dimetix laser distance sensors
- ▶ Enter set points by keying in values
- ▶ Available operating modes:
 - Distance minimum/maximum
 - Crane to wall or crane to crane
- ▶ Two relay outputs per laser;
- ▶ Simple dual line display shows set points, live readings, and error codes
- ▶ 110 VAC/220 VAC single phase power required; laser powered through control box
- ▶ Polycarbonate wall mount sealed enclosure

Laser Specifications	Imperial	Metric
Measuring range	~1.64 ft to 98 ft	~0.5 m to 30 m
Absolute accuracy @ 2σ (3 Hz)	± 3.5 in	± 90 mm
Repeatability typ.	± 0.062 in	± 1.5 mm
Spot diameter (164 ft./50 m)	0.71 in x 0.32 in	18 mm x 8 mm
Operating temperature	-14°F to 122°F	-10 °C to 50 °C
Max. measuring rate	3 Hz	
Protection rating	IP65	
Laser body	Rugged aluminum construction	
Laser availability (spares)	Stock in USA	
User setup	<ul style="list-style-type: none"> ▶ 2 line text display ▶ User can set up 2 positions per laser ▶ 4 total positions with 2 lasers ▶ User can set positions 	
Number of sensors	Up to 2	
Hysteresis	User settable	
Visible laser	Yes	
Target	Natural surface / White target plate ideal	



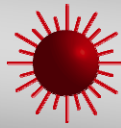
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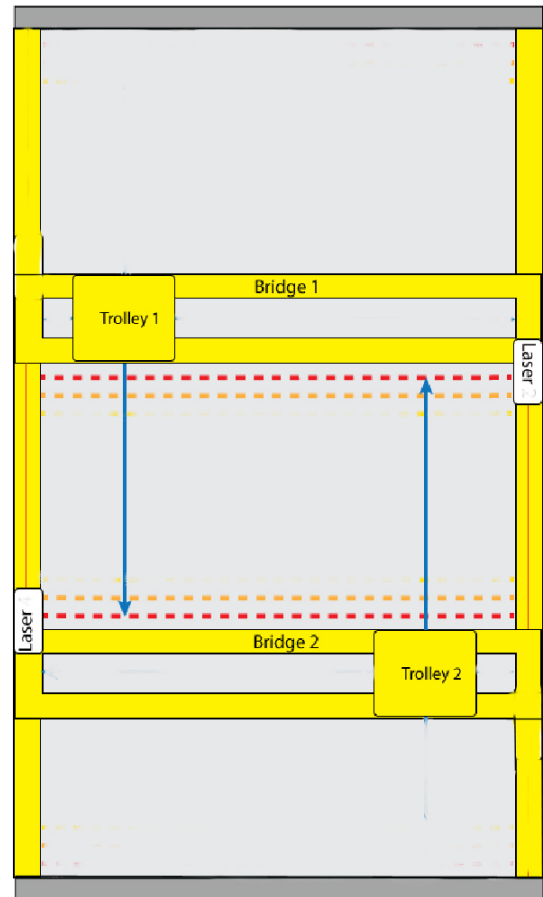
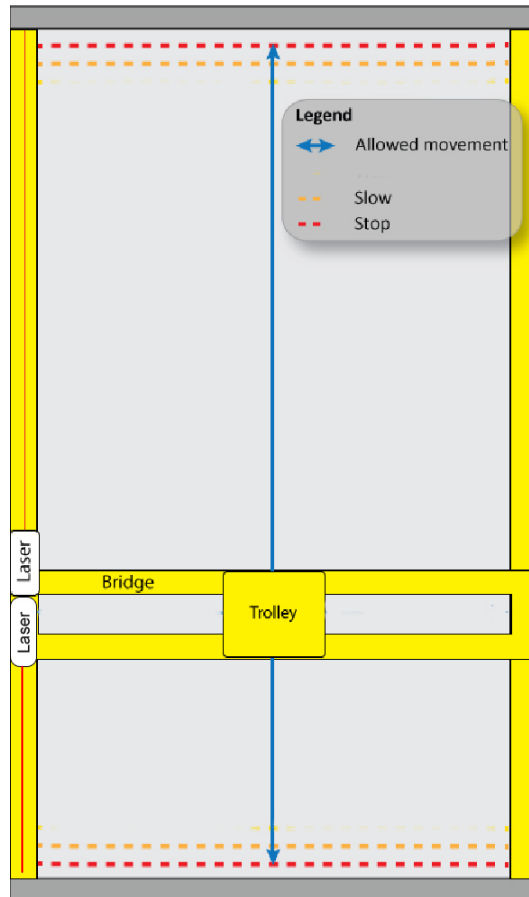
Crane Sentry Lite systems feature Dimetix laser distance sensors (Mfg.: Dimetix AG)

- ▶ Measurement accuracy of <3.5 in at speeds up to 3 Hz
- ▶ Class II visible laser for safe use
- ▶ Up to 98 ft (30 m) range
- ▶ Indoor / outdoor use





CRANE SENTRY SYSTEM LAYOUT EXAMPLES



Distance minimum/maximum. Two lasers aimed at end walls or ends stops; When crane approaches a set point limit, the slow speed and stop alarms are triggered.

A single laser system can measure both ends of a runway with one alarm as min and the other as max, as long as the range does not exceed 98 ft.

Crane to crane. When crane approaches a set point limit, the slow speed and stop alarms are triggered. When bridge moves out of laser sensor range, crane is permitted to operate as normal.



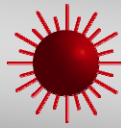
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CRANE SENTRY LITE LASER COLLISION MONITORING SYSTEM

- ▶ (1) Crane Sentry Lite controller
- ▶ (1) or (2) Dimetix laser distance sensor(s)
- ▶ (1) or (2) laser cable sealed connector(s)
- ▶ (1) or (2) two axis alignment bracket(s)





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CRANE SENTRY LITE CONTROLLER SPECIFICATIONS

Control Specifications	
General	
Power Requirement	0.5 A @ 110 VAC
Relay Outputs	
Number of Outputs	2 (single laser) / 4 (dual laser)
Type	SPST-NO/NC
Life Expectancy	100k operations at maximum load
Rated Current	8A max per output
Rated Voltage	250 VAC, 30 VDC
Graphic Display	
Type	STN LCD, Backlight Illumination, 2 line display
Environmental	
Operating Temp (Control Box)	0°C to 50°C
Storage Temp	-20°C to 60°C
PLC memory battery backup	7 years typical at 25°C
Ingress Protection	IP65/66/NEMA4x
Enclosure Material	Polycarbonate

LOOKING FOR MORE FEATURES AND OPTIONS?

The original Crane Sentry® includes added functions and features:

- ▶ **Additional operation modes**
 - Restricted zone mode
 - Skew mode (requires 2 lasers)
- ▶ **Up to 1640 ft (500 m) range**
- ▶ **Up to 20 Hz max measuring rate**
- ▶ **Optional 8 amp relays**
- ▶ **Heating and cooling options**
- ▶ **No reflector up to 213 ft (65m)**



Please **contact** Laser-View Technologies to request a quote or learn more about the Crane Sentry Lite laser collision monitoring system.

- ▶ **Complete modular system includes up to 2 lasers**
- ▶ **Quick aim & set installation, versatile application**
- ▶ **Intuitive operation, simple troubleshooting**
- ▶ **Rugged industrial package, low maintenance**
- ▶ **Indoor/outdoor operation**
- ▶ **Non-contact, eye-safe laser measurement**
- ▶ **High accuracy, long range, competitive cost**



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