



# Laser-View Technologies

Smart non-contact measurement solutions for industry



## Location Manager Rockwell Edition

### Performance

- ▶ Indoor/outdoor use
- ▶ Up to 0.04 in ( $\pm 1$  mm) accuracy
- ▶ Up to 1640 ft (500 m) range
- ▶ No reflector up to 213 ft (65m)
- ▶ IP 65 environmental rating



### Features

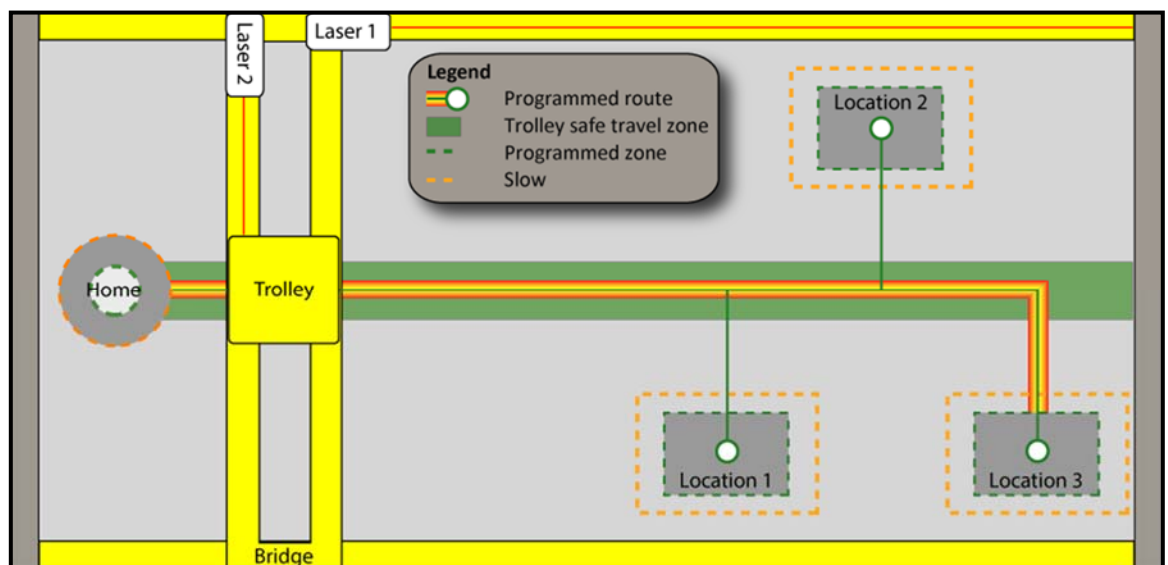
- ▶ Connects 2 Dimetix lasers
- ▶ Class II visible eye-safe laser
- ▶ Expandable up to 120 locations
- ▶ Built on an Allen Bradley Control Logix platform



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Location Manager automated positioning system enables programmed travel between "Home" and up to 120 preset locations



Location Manager example shows programmed travel between Home and 3 preset locations on an overhead crane.



## CRANE SENTRY LOCATION MANAGER LASER POSITION MONITORING

Laser Model	FLS-C 30	FLS-CH 30
<b>Measuring range</b>		
Reflective foil	~0.5 ... 500 m	~0.5 ... 500 m
Natural surface	0.05 ... ~65 m	0.05 ... ~65 m
Accuracy @ 2σ (10 Hz)	± 3 mm	± 3 mm
Repeatability typ.	± 0.5 mm	± 0.5 mm
Max. measure rate	20 Hz	20 Hz
Operating temp.	-10 ... +50 degrees C	-40 ... +50 degrees C
Protection rating	IP65	IP65
<b>Diameter, laser dot</b>		
at 10 m	8 mm	8 mm
at 50 m	25 mm	25 mm
at 100 m	40 mm	40 mm
Dimensions [mm]	150 x 80 x 50	150 x 80 x 50
Weight	0.69 kg	0.72 kg

### Location Manager General System Specifications

Power Requirement	1 A @ 110 VAC (5A 24 VDC internal power supply)
Serial Inputs	Two RS232 inputs for Dimetix lasers (19200,7,E,1)

### Digital Inputs

Inputs	15 PNP control inputs (see User Manual for details)
Input Voltage	17-28.8 VDC; 24 VDC nominal
Input Current	8 mA @24 VDC

### Relay Outputs

Type	8 relays (24 VDC ) on board	
	<ul style="list-style-type: none"> <li>System enable</li> <li>Axis 1 forward</li> <li>Axis 2 forward</li> <li>Axis 1 slow</li> </ul>	<ul style="list-style-type: none"> <li>In motion</li> <li>Axis 1 reverse</li> <li>Axis 2 reverse</li> <li>Axis 2 slow</li> </ul>
Rated Current	8 A	
Rated Voltage	250 VAC	

### Graphic Display

Type	TFT, color active matrix (3.5"; 320x240 pixels)
Touchscreen	Resistive, analog

### Environmental

Operating Temp (Control Box)	0 to 50 degrees C; options for heated and cooled enclosure
Storage Temp	-20 to 60 degrees C
Expected Battery Lifetime	5 years typical at 25 degrees C
Ingress Protection	IP65/66/NEMA4x
Enclosure Material	Polycarbonate



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## Features:

- Modular system—all components included
- Simple TEACH setpoint programming
- Program up to 120 locations
- Intuitive color touch screen display
- Rugged industrial components
- Class II visible laser for safe use
- Indoor/outdoor operation
- Intuitive and economical
- Up to 500 meter range
- Contains Allen Bradley components



## Components:



- CompactLogix 5370 L2 Controller (1769 L24ER shown here)
- PanelView Plus 400 terminal
- Crane Sentry circuit board
- Allen Bradley Power Supply
- RTA ASCII to Ethernet IP PLC gateway
- Allen Bradley Stratix 2000 Ethernet unmanaged switches
- Supports up to 2 Dimetix FLS/DLS laser distance sensors



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