



Application Brief: Overhead Crane Load Monitoring

Industry: Materials Handling/Overhead Crane

Application: Overhead Crane Load Monitoring

Product (Part Number): Crane Sentry® Load Monitor (CR6207-X)

Sensor: Dimetix laser distance sensor

Summary: Crane Sentry® Load Monitor is an innovative laser distance sensor-based crane position monitoring and control system designed to de-rate an overhead crane system by keeping cranes, in the same bay or in adjacent parallel bays, a safe distance apart to prevent overloading structural columns.

Overview

Most modern cranes have built-in load monitoring capabilities to prevent a crane from exceeding its rated capacities or those of the supporting structure. Crane operators and safety managers sometimes assume, however, their cranes are fitted with load monitoring devices when, in fact, they are not, which makes load monitoring a persistent issue.

Challenge

Load monitoring is a critical aspect of crane safety. Without proper load monitoring, potentially dangerous situations may arise jeopardizing not only equipment, supporting structures, and personnel, but also resulting OSHA and ASME regulation violations.

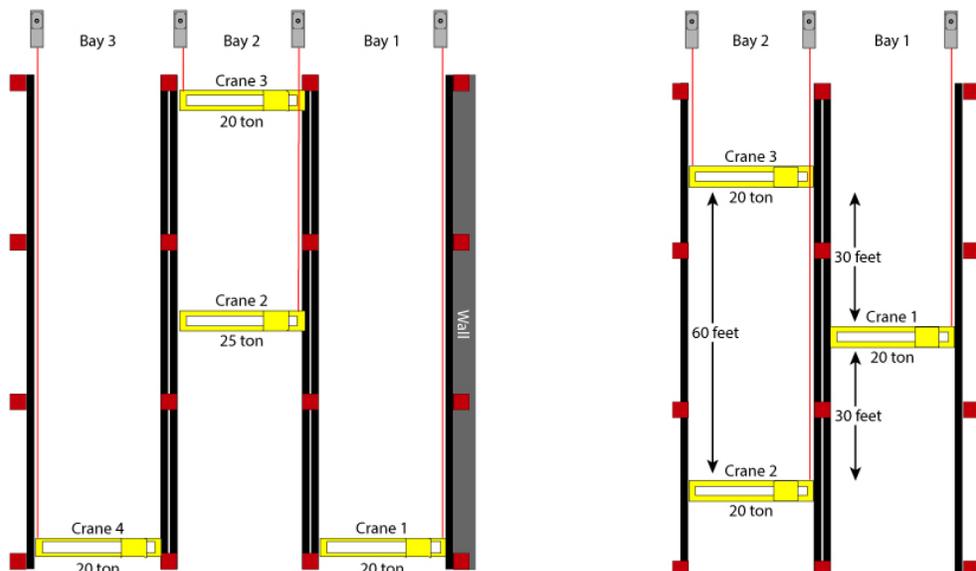


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V1.0

	Laser Readings		Crane Tonnage
Crane 1	0.70	Ft	12.84
Crane 2	0.59	Ft	19.44
Crane 3	0.71	Ft	21.95
Crane 4	1.11	Ft	3.79
I/O Status			Alarm Status
Setup	Login		Logout

Crane 1 Settings

Offset	0.00	Feet
Max Load	50.0	Tons
Analog High	67.0	Tons
Analog Low	0.0	Tons
Return		Amp

Solution

Crane Sentry[®] Load Monitor is an innovative laser distance sensor-based crane position monitoring and control system designed to de-rate an overhead crane system consisting of up to 10 cranes by keeping cranes, in the same bay or in adjacent parallel bays, a safe distance apart to prevent overloading structural columns. When Load Monitor detects an impending overload condition as defined during configuration of the Load Monitor control, hoist lift and movement in the direction of a potential overload will be disabled. Only lowering of the load or movement away from the potential overload are enabled. Load Monitor also features a simple, teachable color touch screen display, and is available with a variety of options to ensure compatibility with almost any industrial working environment. **NOTE: Load Monitor is NOT a safety-rated system. Load Monitor should be used to complement, NOT as a substitute for, compliance with industry standard best practices and applicable safety regulations.**

Please call 610-497-8910 or email [Laser-View Technologies](mailto:info@laser-view.com) today for more information.

