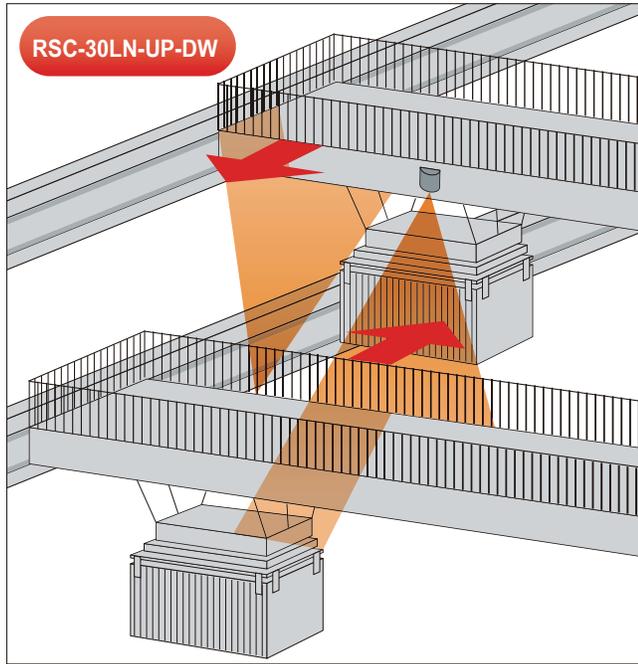


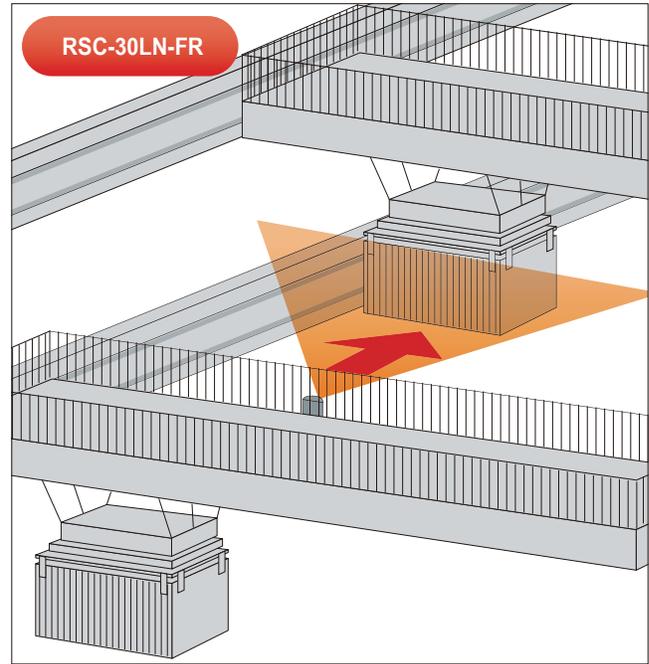
Area Obstacle detection & collision prevention for high-bay to lower bay overhead crane applications

● **Multi-Crane application examples**

Detection of another crane



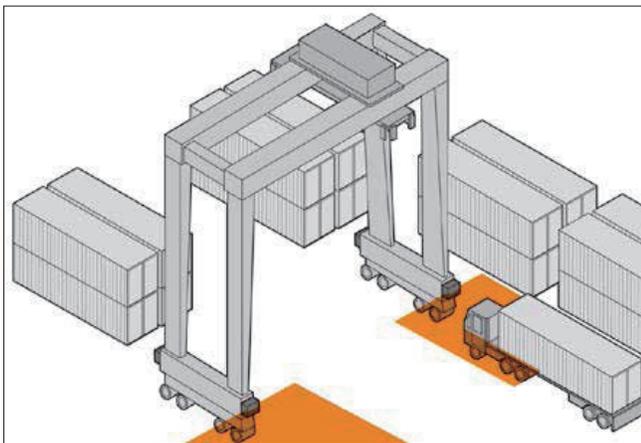
Detection of load suspended from another crane



Note) Field testing is recommended for evaluating sensor detection performance on the surfaces of objects and within the application environment.

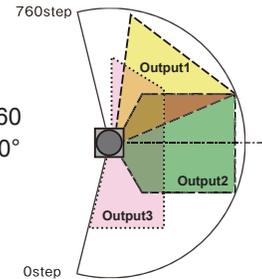
● **Rubber Tire Gantry (RTG) application example**

Obstacle Detection for RTG



Scanning Zone

Number of steps: 760
Scanning angle: 190°
Step angle: 0.25°



Features

- 30-meter scanning range
- 190° scan angle
- Three configurable output zones
- Two mounting bracket types available
- Control Box (100-240VAC power supply, Relay outputs)

Appearance

RSC-30LN-UP-DW	RSC-30LN-FR	RSC-C (Control Box)
		

Specifications

Sensor Unit with Mounting Brackets		
Model	RSC-30LN-UP-DW (flush-mount bracket)	RSC-30LN-FR (horizontal-mount bracket)
Power source	10 to 30VDC	
Light source	Semiconductor laser (905nm), Class 1 eye safe	
Scanning Range and Detectable object	0.1 to 30m (Black sheet with 10% reflectance, 500mm x 500mm size) Maximum distance: 100m Minimum detectable object: 65mm at 5m, 130mm at 10m, 400mm at 30m	
Distance Accuracy	+/-100mm (with 10% reflectance at 10m, with white Sheet at 30m) (under environment of ambient illuminance 100000 or less) Note) Please avoid entering direct sunlight	
Scanning Angle	190 degree	
Interface	USB2.0 Full Speed, 12Mbps (for configuration of detection zone)	
Angular Resolution	0.25 degree	
Scanning Rate	50ms per scan	
Operating Temperature and Humidity	-10 to +50°C 85%RH (not condensing and icing)	
Vibration Resistance	10 to 55Hz Double Amplitude 1.5mm, in each X, Y and Z axis for 2 hours 55 to 200Hz 196m/s ² sweep of 2 min. in each X, Y and Z axis for 1 hour	
Impact Resistance	196m/s ² 10times in each X, Y and Z axis	
Protective Structure	IP67	

Control Box	
Model	RSC-C
Power Source	100 to 200VAC
Power Consumption	11.0VA or less at 100VAC, 15.0VA or less at 200VAC Output: 4 (1-error output, 3-detection output)
Control Output	Relay contact output, Rated Load (250VAC:5A, 30VDC:5A)
Output Response Time	Operation: 10ms or less (approx. 4ms) Reset: 10ms or less (approx. 2ms)
Operating Temperature and Humidity	-10 to 50°C 85%RH (not condensing and icing)
Protective Structure	IP65 (provided if the terminal wiring is properly connected)

External Dimensions

