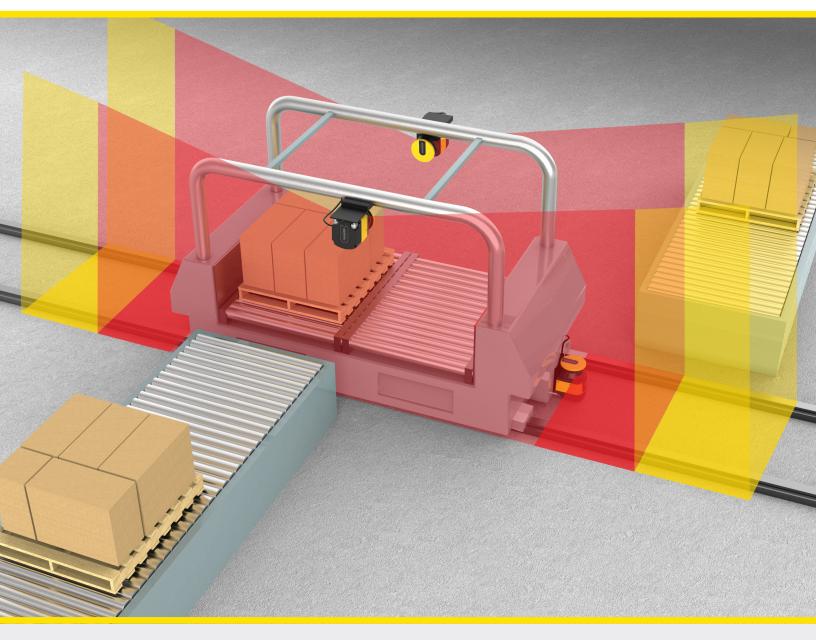
# SX Series



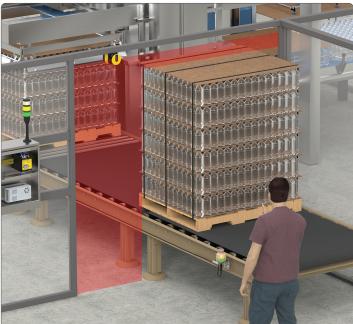
### Safety Laser Scanners

- Stand Alone or Master and Remote functionality with simplified setup and wiring
- Protect personnel and equipment with three independent safety outputs
- Ideal solution for complex applications with 70 unique safety zone sets, encoder inputs, and advanced measurement data
- Cost-effective, compact, one-piece design with 275° of monitoring
- Horizontal or vertical detection zones to reliably safeguard mobile vehicles, access points, work areas, and more



more sensors, more solutions





### Three Independent Safety Outputs

Up to three safety zones can be monitored simultaneously and independently, reducing the need for multiple safety scanners or safety light curtains.

### **Dynamic and Partial Muting**

Up to three safety zones can be monitored simultaneously and independently, reducing the need for multiple safety scanners or safety light curtains.



### Safeguarding a Work Area

A single SX5 safety laser scanner continuously scans a user-defined area up to 275° to create a two-dimensional protected zone, detecting staff or equipment entering the area.



### Vertical Applications and Zone Switching

Easy-to-use software allows for simple zone configuration and zone switching in vertical applications, such as forklift conveyor access.



#### Challenge

- Monitor multiple sides of an AGV or other mobile equipment
- Protect personnel and equipment with a moving environment and changing safety parameters
- Reduce hardware required for direct vehicle navigation
- Reduce cabling in mobile applications

### Solution

- With master/remote functionality, up to four SX5 safety laser scanners can be connected in a single system to guard all sides of a vehicle
- Up to 70 unique safety zone sets can be configured and activated based on the position, speed, and motion of the vehicle
- Encoder inputs and advanced measurement data output reduce the amount of hardware required and allow for direct vehicle navigation
- Remotes are each connected to the master by a single cable, reducing cable management and simplifying wiring

#### Master/Remote Functionality

Guard all sides of a vehicle and configure up to 70 unique safety zone sets to monitor the changing safety parameters of a mobile application.



### Safe Speed Monitoring

Incremental encoder inputs can be read directly by the scanner to select the appropriate safety zone based on the speed of the vehicle, reducing cost and eliminating the need for functions typically required by additional hardware like a safety PLC.

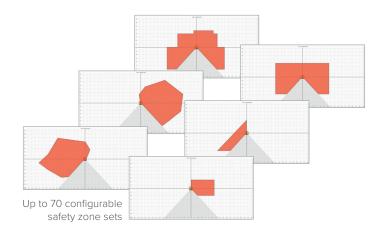


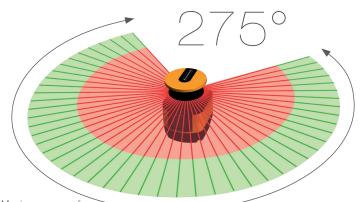


# **Dependable and Flexible Industrial Safeguarding**

Horizontal or vertical monitoring of both personnel and stationary or mobile systems







Maximum range for Warning Zone: 40 m

Maximum range for Safety Zone: 5.5 m 275° of coverage makes it easy to mount on a corner

# Safety Scanner System – Software

### Simple Setup for Rapid Deployment

The SX5 can be set up in just a few simple steps using Banner's free configuration software. This robust software features menu-driven tools that guide users through setup and make it easy to design custom safety and warning zones to accommodate existing infrastructure and meet the specific needs of any application.



		SX5-ME70	SX5-M70	SX5-M10	SX5-R	SX5-B6
		5	5	5	5	5
Presence Detection		50/70 mm				
Hand Detection		30/40 mm				
Body Detection	<u>大</u> :	70/150 mm				
Range (depending on resolution)		30 mm = 2.5 m 40 mm = 3 m 50 mm = 4 m 70/150 mm = 5.5 m	30 mm = 2.5 m 40 mm = 3 m 50 mm = 4 m 70/150 mm = 5.5 m	30 mm = 2.5 m 40 mm = 3 m 50 mm = 4 m 70/150 mm = 5.5 m	30 mm = 2.5 m 40 mm = 3 m 50 mm = 4 m 70/150 mm = 5.5 m	30 mm = 2.5 m 40 mm = 3 m 50 mm = 4 m 70/150 mm = 5.5 m
Max. Zone Sets (depending on configuration)		70	70	10	Depends on master	6
Master Remote		Master Add up to 3 Remotes	Master Add up to 3 Remotes	Master Add up to 3 Remotes	Remote	
Removable Memory		SXA-RM-70	SXA-RM-70	SXA-RM-10		
Max. OSSD Outputs (depending on configuration)	$\left( + \frac{1}{2} \right)$	3 x 2 OSSD	3 x 2 OSSD	2 x 2 OSSD		1 x 2 OSSD
Connection	$( \bigcirc \ \circ \$	M12: 17-pin and M12: 8-pin	M12: 17-pin and M12: 8-pin	M12: 12-pin or M12: 8-pin		M12: 8-pin
Speed Monitoring		$\checkmark$				
Muting		~	~	~	~	~
Programmable Dust Filter		$\checkmark$	~	~	~	$\checkmark$
Measurement Data		~	~	~	~	~
Field-Replaceable Window		~	~	~	~	$\checkmark$

### Specifications \_

• Removable Memory SX..M\*70

Replacement Kit

25 m (82')



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BANNER
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## Who is Banner?

Every 3.5 seconds, a Banner sensor is installed somewhere in the world. Banner solves problems for most of the manufacturing companies in the Fortune 500, as well as the startups changing industry with leading-edge production.

Banner technology supports manufacturing of the cars you drive, the food you eat, the medicine you take and virtually every product in your daily life. Whatever the industry, Banner offers solutions to automate production, improve efficiency and manufacture to the highest standard of quality.

### **Manufacturing Specialists**

With over 30,000 products, Banner is a leading source for manufacturing needs. We offer award-winning sensors, wireless solutions, vision sensors and lighting, machine safety, indicator lights and LED lighting.

### **Application Solution Experts**

Our field sales engineers are the most highly-trained and experienced professionals in the industry. They can rapidly analyze an application to help you find the best solution.

### **Global Presence**

Banner offers worldwide sales and support through a network of more than 3,000 professionals ready to help you no matter where you are located.

### **Unique Solutions**

Banner's growing product line includes thousands of standard products. However, if you have an application requiring a unique solution or direct integration of a Banner product, contact one of Banner's Application Engineers to learn about our rapid customization and ability to deliver special product variations.

> Talk with an app engineer. Get product specs. Order now.



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