



Safety Scanner System

- Maximum ranges for Safety Zone is 5.5 m and Warning Zone is 40 m
- 275 degrees of coverage makes it easy to safeguard a corner
- Dynamic Muting available and selectable detection capability for vertical applications
- Configurable for up to 6 zone sets
- Light Immune and dust resistant





Dependable and Flexible Industrial Safeguarding

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



LED 1: Object Detection in Safety Zone (OSSD)

LED 2: Not Available

LED 3: Assigned to Warning Zone 2 LED 4: Assigned to Warning Zone 1 LED 5: Interlock Status (waiting for Reset)









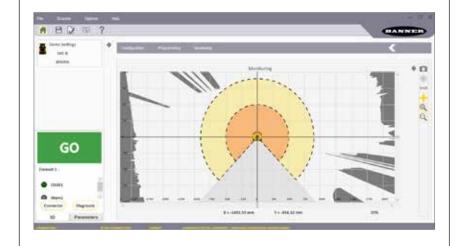




Software

Communication between a PC and the SX5 via an Ethernet network. The SX5 is preprogrammed at the factory with a default configuration but must be reconfigured for each application.

- Administrative data: example file name, application description etc.
- Safety-relevant data: startup process information
- Safety Zone or Warning Zone configuration data: contours and limits



Safeguarding a Robotic Weld Cell

Challenges

- Safeguard weld cell access on two sides
- Maintain a steady flow of material through the weld cell
- Alert personnel as they approach hazardous areas
- Prevent nuisance trips caused by dust, dirt, or light flash

Solution:

- A single SX5 safety laser scanner continuously scans a 275 degree area to detect staff or equipment entering protected zones
- Software interface makes it easy to create custom safety and warning zones to safeguard large, complex, and irregularly shaped areas
- An alert is triggered if an object enters the warning zone and equipment will come to a stop if the safety zone is breached
- Best-in-class immunity to dust, dirt, and light flash minimizes nuisance trips caused by environmental conditions

Safeguarding a Pallet Transfer Conveyor

Challenges

- Protect multiple access points on pallet transfer conveyor
- Provide easy access to forklifts loading and unloading pallets
- Minimize time and expense necessary to implement safety solution
- Limit potential for damage caused by impact with pallets or forklifts

Solution:

- Safety Zone Switchover capability enables each SX5 to create two independent safety zones to safeguard both access points at either end of the pallet transfer conveyor
- Muting sensors can be directly connected to the SX5 to enable forklifts to access the pallets without the expense and hassle of adding an external module or controller
- Compact, one-piece safety device installs easily above and away from area hazards without requiring time-consuming alterations to area infrastructure







Specifications



Operating Range and Scanning Angle

Safety protective field: up to 5.5 m Warning field: 40 m Scanning angle: 275 degrees

Mechanical Data

Housing material: Aluminum Alloy Housing color: YellowRAL1003 Optics cover material: PC Optics cover surface: Acrylic

Detection Capability 40 mm, 70 mm

Safety Data

Type 3 (EN 61496-1) SIL 2 (IEC 61508)

All inputs and outputs are protected from short circuits to +24 V dc or dc common Category 3 (EN ISO 13849-1) SILCL 2 (EN 62061) PL d (EN ISO 13849-1)

Environmental Rating Operating Conditions

OSSD (Safety Output)

IEC IP65

Optical Data

Wavelength: 905 nm Pulse duration: 3 nsec

0 °C to +50 °C (+32 °F to +122 °F) 95% maximum relative humidity (non-condensing) Laser class: CLASS 1 (EN 60825-1)

Current Consumption (24 V dc)

No output load: 0.3 A at 24 V dc With maximum output load: 1.1 A at 24 V dc Certifications

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Interface Options

Safety Controllers



XS26-2 XS26-2d

XS26-2e

XS26-2de



SC26-2

SC26-2d SC26-2e

SC26-2de

Expandable safety controller supports up to eight I/O modules and programs easily using iconbased software

Flexible, efficient safety controller has small footprint and programs easily using icon-based software

Accessories



SXA-MBK-1 Pitch and roll angle adjustment bracket



SXA-MBK-2 Protection bracket



8-Pin M12 Euro-Style Straight connector

SXA-815D 4.5 m (15') SXA-825D 7.6 m (25') SXA-850D 15.2 m (50') SXA-8100D 30.4 m (100')



4-Pin M12 D-Code to RJ45 Double ended

STP-M12D-406 1.83 m (6') STP-M12D-415 4.5 m (15') STP-M12D-430 9.14 m (30')

Safety Modules



UM-FA-9A

UM-FA-11A

Monitors solid-state PNP OSSD safety outputs and provides latching (manual reset) function for applications requiring a reset











