

Presence Sensing Safety Devices

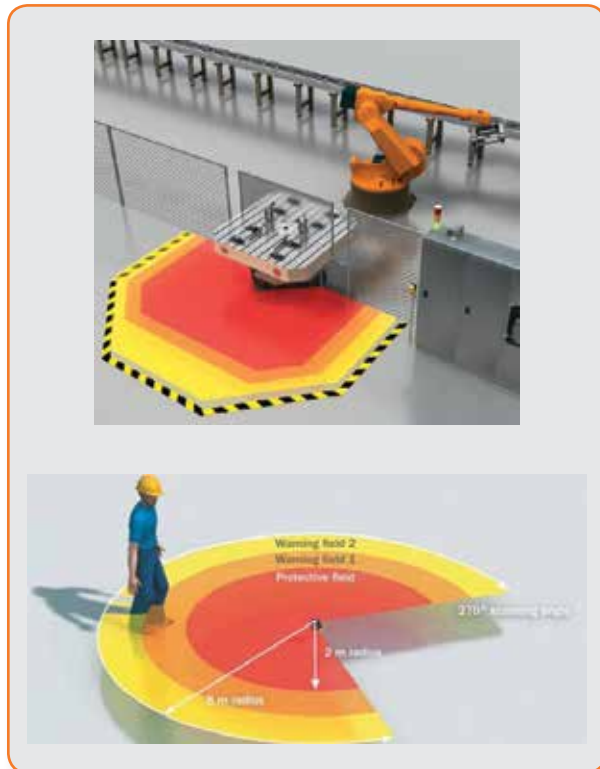
Safety



SafeZone Safety Scanners 442L

- Single-zone, multi-zone, and mini versions
- Selectable resolutions of 30, 40, 50, 70, and 150 mm
- Horizontal or vertical mounting
- Stationary or mobile applications
- Class 1 laser (eye safe)
- Rugged IP65 housings
- Easy-to-use configuration wizard
- Seven-segment diagnostic display, rotatable by 180°

SafeZone Mini

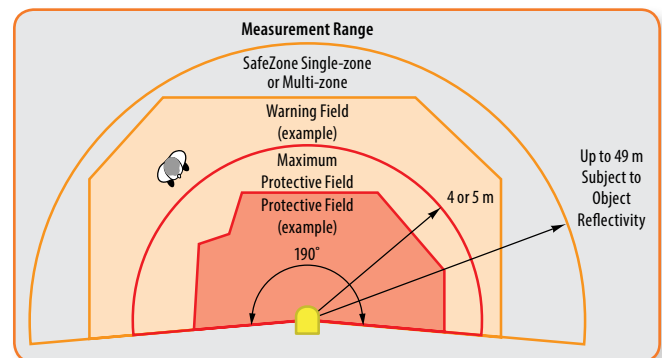


A Flexible, Easy-to-Use Machine Safeguarding Solution

SafeZone safety laser scanners are Type 3 optoelectronic devices that use reflection of emitted infrared laser light to sense a person or object within a user-defined area. The Class 1 (eye safe) infrared laser scans a 190° or 270° angular area to create a two-dimensional detection field. Light reflected off an object or person in the field is processed by the SafeZone, which sends a stop signal to the machine.

SafeZone single-zone scanners feature one user-configured sensing field, while multi-zone versions provide four switchable, configurable field sets (warning and safety).

SafeZone Single-zone and Multi-zone



Presence Sensing Devices



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Interlock Switches



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Access Control



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Safety Relays



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Emergency Stop Devices



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Enabling Switches



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Safety Limit Switches



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Product Selection

SafeZone Safety Scanners

Model	Application Specific Resolutions	Safety Outputs	Auxiliary Outputs	Angular Scanning Range	Safety Field Range	Cat. No.
SafeZone Mini, 2 m	30, 40, 50 and 70 mm	2 PNP	2 (configurable)	270°	2 m	442L-SFZNMN
SafeZone Mini, 3 m	30, 40, 50, 70 and 150 mm	2 PNP	2 (configurable)	270°	3 m	442L-SFZNMN3
SafeZone Single-zone	30, 40, 50, 70 and 150 mm	2 PNP	1	190°	4 m	442L-SFZNSZ
SafeZone Multi-zone	30, 40, 50, 70 and 150 mm	2 PNP	1	190°	5 m	442L-SFZNMZ

Specifications

Standards	IEC 61496-3, UL 61496, IEC 61508
Safety Classification	Type 3 ISO 61496-1; SIL 2 IEC 61508, SIL cl2 62061; PLd ISO 13849-1
Certifications	cULus Listed, TÜV Certified, and CE Marked for all applicable directives, Type 3 AOPDDR per IEC 61496, SIL 2 per IEC 61508
Power Supply	24V DC ±20%/30%
Power Consumption	55 W with max. output load, 19 W without output load

Required Cable & Cordsets

Single-zone or Multi-zone Scanner

Description	Cat. No.
Prewired I/O connector cable, 10 m	442L-CSFZNMZ-10
Prewired I/O connector cable, 20 m	442L-CSFZNMZ-20

Mini Scanner

Description	Cat. No.
M12 shielded 8 conductor cable cordset 2.5 m, required for SFZNMN	442L-ACABL2
M12 shielded 8 conductor cable cordset 10 m, required for SFZNMN	442L-ACABL10
USB programming cable, 2 m or 10 m, required to program device	442L-ACUSB-2

Single-zone, Multi-zone, and Mini Scanner

Description	Cat. No.
USB programming cable, 2 m or 10 m, required to program device	442L-ACUSB-2

Mounting Brackets

Single-zone or Multi-zone Scanner

Description	Cat. No.
Mounting kit 1: mounting bracket for direct mounting at the rear on wall or machine. No adjustment.	442L-AMBSFZNMZ1
Mounting kit 2: bracket only in conjunction with mounting kit 1. Mounting at the rear on wall or machine. Longitudinal and cross-wise adjustment possible.	442L-AMBSFZNMZ2
Mounting kit 3: bracket only in conjunction with mounting kit 1 and 2. Mounting at the rear or below the wall, floor or machine. Longitudinal and cross-wise adjustment possible.	442L-AMBSFZNMZ3

Mini Scanner

Description	Cat. No.
Mounting bracket 1 for direct mounting	442L-AMBSZMN1
Mounting bracket 2 for optical cover protection	442L-AMBSZMN2
Mounting bracket 3 longitudinal and cross wise adjustment possible	442L-AMBSZMN3 ¹
Mounting bracket 4 back plane mounting with kits 2 and 3	442L-AMBSZMN4 ²

¹ Requires bracket 1 or 2

² Required bracket 1 or 2 and 3

Accessories

Description	Cat. No.
Single-zone/Multi-zone scanner replacement front window	442L-SFZNMZW
Mini scanner replacement cover	442L-SZMNW

