

# Installation Instructions

Original Instructions



**Allen-Bradley**

by ROCKWELL AUTOMATION



## SafeZone Mini Safety Laser Scanner Replacement Window Kit

Catalog Number 442L-SZMNW

### Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

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Added Declaration of Conformity	2

**IMPORTANT** Save these instructions for future use.

### Safety Information



**ATTENTION:** Repair only by authorized persons. The improper repair of the SafeZone™ Mini Safety Laser Scanner can result in the loss of the protective function. Only the manufacturer or persons who the manufacturer authorizes to repair the safety laser scanner.



**ATTENTION:** Switch the entire machine/system off line. The system can inadvertently start up while you replace the optics cover. As a matter of principle, always isolate the machine from the power supply during all work on the machine and safety laser scanner.

Perform an optics cover calibration with the aid of the SCD after the replacement of the optics cover.

The level of contamination is measured continuously during the operation of the SafeZone™ Mini Safety Laser Scanner. For this purpose, first calibrate the optics cover; this calibration then serves as a reference for the contamination measurement (status = not contaminated).

Only calibrate the optics cover with a new optics cover. The new optics cover must be free of contamination at the time of the optics cover calibration. Calibrate the optics cover at room temperature [10...30 °C (50...86 °F)].

### Optics Cover

Replace the optics cover if the optics cover is scratched or damaged

- The optics cover on the SafeZone Mini safety laser scanner is an optical part that must not be soiled or scratched on replacement.
- Only specialist personnel can replace the optics cover and only in a dust and dirt-free environment.
- Never replace the optics cover during ongoing operation, as internal parts can be irreparably damaged in certain circumstances and dust particles can enter the device.
- Avoid contamination of the inside, for example, with fingerprints.
- Do not use any additional sealant for sealing the optics cover, for example, silicon, as these substances can affect the optics.
- Mount the optics cover as per the following instructions to achieve a sealed housing to IP65.

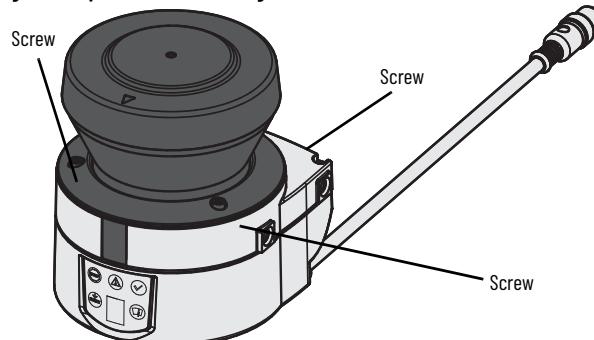
### Optics Cover Replacement Procedure



- Only use a new optics cover.
- When replacing the optics cover, take electrostatic discharge (ESD) protection measures.
- Set your torque wrench to 1.2 N·m (10.6 lb·in) (hand-tight).

1. Disconnect the round plug connector and remove the SafeZone Mini safety laser scanner.
2. Take the SafeZone Mini safety laser scanner to a clean place (office, repair shop, or similar).
3. Clean the outside of the SafeZone Mini safety laser scanner. This step keeps foreign bodies from entering the safety laser scanner when it is opened.
4. Remove the optics cover mounting screws ([Figure 1](#)).

Figure 1 - Optics Cover Mounting Screws



5. Remove the optics cover.
6. Check whether the mirror on the motor is clean and remove any contamination with an optic brush.
7. Take the new optics cover out of the packaging and remove the protection for the seal.
8. Remove any remnants of packaging.

9. Place the optics cover on the safety laser scanner and place the new mounting screws.

**IMPORTANT** When fitting the new cover, verify that the arrow on the top of the cover points to the front and that the optics cover is fully in contact without a gap.

10. Tighten the front screws with the torque wrench.
11. Make sure that the optics cover is free of dirt and that it is not damaged.

## Recommission the SafeZone Mini Safety Laser Scanner

1. Correctly remount the SafeZone Mini safety laser scanner (see publication [442L-IN008](#)).
2. Connect the round plug connector on the end of the connection cable for the SafeZone Mini safety laser scanner.
3. Perform an optics cover calibration with the aid of the SCD software.

## Declaration of Conformity

### CE Conformity

Rockwell Automation declares that the products that are shown in this document conform with the Essential Health and Safety Requirements (EHSRs) of the European Machinery Directive (2006/42/EC) and the EMC Directive (2014/30/EU).

For a comprehensive CE certificate visit: [rok.auto/certifications](#).

### UKCA Conformity

Rockwell Automation declares that the products that are shown in this document are in compliance with the Supply of Machinery (Safety) Regulations (2008 No. 1597) and the Electromagnetic Compatibility Regulations (2016 No. 1091).

For a comprehensive UKCA certificate visit: [rok.auto/certifications](#).

## Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at [rok.auto/pec](#).

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