

# Installation Instructions

Original Instructions



## SafeZone 3 Optics Cover

Catalog Numbers 442L-SZNMZCP, 442L-ASZNCPW

### Safety



**WARNING:** Risk of ineffectiveness of the protective device. Failure to observe these instructions can result in failure of the protective device: persons or parts of the body to be protected cannot be detected. During operation, the safety laser scanner constantly measures the degree of contamination of the optics cover. For a new optics cover to function perfectly, an optics cover calibration has to be implemented initially. This optic cover serves as a reference for contamination measurement (status = uncontaminated).

- Conduct an optics cover calibration with the 442L Add-on Profile (ADP) configuration software every time the cover of the SafeZone™ 3 safety laser scanner is replaced.
- Conduct the optics cover calibration at room temperature (10...30 °C [50...86 °F]).
- Only conduct the optics cover calibration with a new optics cover.
- Make sure that the entire system is clear of contamination when the calibration is conducted.

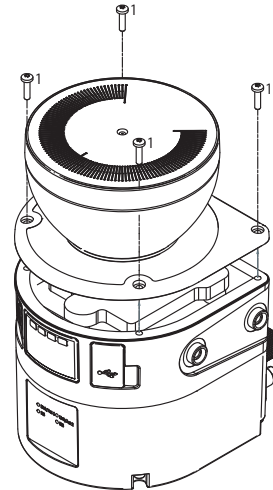
### IMPORTANT

- The optics cover of the safety laser scanner is an optical component. Make sure that the optics cover does not become dirty or scratched during unpacking and mounting. Prevent fingerprints on the optics cover. Wear the gloves supplied with the new optics cover during replacement.
- Only qualified safety personnel may replace the optics cover in a dust- and dirt-free environment.
- Never replace the optics cover during continuous operation, as dust particles could penetrate into the safety laser scanner.
- You must prevent contamination on the inside of the optics cover, for example due to fingerprints.
- Do not use an additional sealant, such as silicone, for sealing the optics cover. Any vapors that are created may damage the optical components.
- Mount the optics cover according to the following instructions, to achieve IP65 leak tightness of the housing.
- Use new optics covers exclusively as a replacement.
- You must provide ESD protection during the replacement of the optics cover.
- The IP65 enclosure rating is only valid if the safety laser scanner is closed and the safety plug is mounted.

### Replace the Optics Cover

- Tools Required:**
- TX10 torque wrench

Figure 1 - Attach the Optics Cover (Use T10 Torx Bit)



1. Confirm that the environment is clean and clear of fog, moisture, and dust.
2. First, clean the safety laser scanner from the outside, so that no foreign bodies penetrate into the open device.
3. Unscrew the mounting screws (1 in [Figure 1](#)) for the optics cover.
4. Slowly and carefully detach the optics cover from the safety laser scanner. If the optics cover seal sticks to the safety laser scanner, carefully detach the optics cover using a screwdriver.
5. If necessary, remove contamination from the sealing groove and the bearing surface of the safety laser scanner. Use residue-free plastic cleaners.
6. Check whether the mirror on the motor is dirty and, if necessary, remove dirt with an optic brush.
7. Set 1.0 N•m (8.85 lb•in.) tightening torque on the torque wrench.
8. During the following steps, wear the gloves that are supplied with the new optics cover.
9. Take the new optics cover out of the packaging and remove the protective cap of the seal.
10. Remove any remaining packaging, if necessary.
11. Carefully push the optics cover over the mirror. Make sure that the optics cover does not touch the mirror.
12. Place the optics cover onto the safety laser scanner. Make sure that the optics cover rests over the whole area without any gaps.
13. Screw in the new mounting screws (1 in [Figure 1](#)).
14. Tighten the screws with the set tightening torque of 1.0 N•m (8.85 lb•in.)
15. Verify that the optics cover is clear of dirt and damage.
16. Recommission the safety laser scanner, see publication [442L-UM008](#).

# Rockwell Automation Support

Use these resources to access support information.

<b>Technical Support Center</b>	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	<a href="http://rok.auto/support">rok.auto/support</a>
<b>Knowledgebase</b>	Access Knowledgebase articles.	<a href="http://rok.auto/knowledgebase">rok.auto/knowledgebase</a>
<b>Local Technical Support Phone Numbers</b>	Locate the telephone number for your country.	<a href="http://rok.auto/phonesupport">rok.auto/phonesupport</a>
<b>Literature Library</b>	Find installation instructions, manuals, brochures, and technical data publications.	<a href="http://rok.auto/literature">rok.auto/literature</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	<a href="http://rok.auto/pcdc">rok.auto/pcdc</a>

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## 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](http://rok.auto/pec).

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