Laser Sentinel Window Replacement Quick Reference Guide

This Quick Reference Guide does not replace the Instruction Manual. Download the Instruction Manual at www.datalogic.com. Click on Support > Search by product and enter the Laser Sentinel family name, then ask your product from the dropdown list. Click on the Manuals & Technical Literature link to download your Instruction Manual. The Instruction Manual must be available at all times when installing and working with the product.

WINDOW REPLACEMENT

When a “Clean Window” error is shown on the device display even after cleaning the window, check for any scratches or spots, but not cracked (which would compromise the IP65 protection of the device), the user is allowed to replace the Laser Sentinel optical window.

Order the replacement window from Datalogic and carefully follow the procedure below.

In all other cases, please contact Datalogic for device replacement.

WARNING TERMS - DISCLAIMER FOR WINDOW REPLACEMENT AND CALIBRATION

PLEASE READ CAREFULLY THIS STATEMENT. BY REPLACING AND CALIBRATING THE WINDOW, YOU ACKNOWLEDGE AND ACCEPT THE FOLLOWING WARNING TERMS.

When handling the new optical window, avoid contaminating it with fingerprints, dirt, scratches, dust, and polluting agents. It is recommended to wear clean, thin gloves to unpack and install the new window.

Always comply with the instructions set forth in this manual; instructions are technical and specific rules that shall be understood, acknowledged and applied by you and your qualified personnel.

3. Remove the optical window with a linear, vertical movement.
4. The new optical window package contains the following parts:
   - 1 optical window;
   - 1 seal;
   - 4 Tuflok® screws.

5. Position the new seal, gently pressing it on the device body and making sure it perfectly fits in the correct position. Exert pressure on the angles of the seal to ensure it is well seated.

6. Hold the new optical window on the sides and carefully place it in the correct position. Exert pressure on the angles of the seal to ensure it is well seated.

7. Snug the 4 Tuflok® screws (do not overtighten them). Use a 2.5 x 10 ball-end hex screwdriver with a shank long enough to avoid damaging the optical window.

8. Tighten the screws with a torque wrench (tightening torque 0.6 Nm, bit 2.5 mm).

9. After replacing the optical window, supply power to the Safety Laser Scanner and connect it to DLSentinel.

10. On DLSentinel, discover your device. On the Discovery page, go to Scanner > Window Replacement and enter your password (if any), then start the procedure.

11. On the window replacement page, select the device whose window has been replaced and enter the serial number of the new window.

12. Carefully read the disclaimer. By clicking OK you accept the terms and disclaimer contained herein.

13. Select the device undergong window replacement and enter the serial number of the new window.

NEW WINDOW CALIBRATION

If the Window Replacement procedure is performed on a Slave device, this must be connected to a Master device. In this case, the last configuration is preserved only if the optical window is replaced while the Slave device is connected to the same Master device of said configuration. On the other hand, if the Slave device is connected to a different Master device during Window Replacement, the last configuration will be lost.

A 2-meter free area around the 275° angle range of the Laser Scanner must be kept free of any obstacles. This area is required to perform the calibration procedure. Keep this area free for the whole duration of the procedure.

14. When calibration is finished, you acknowledge that you have read, understood the warning and downloaded the new config, then return to the window.

15. Only when the new window has passed the calibration procedure, will you have performed the whole window replacement procedure.
14. Window calibration will start now. Make sure that the device has a 2-meter free area around its 275° safety area.

When window calibration is in progress, the device first switches to offline status (black display), then to offline test mode, displaying the following message.

The test area is automatically configured. To test the detection capability of the device(s), use a suitable test piece, e.g. an optically dark, opaque cylinder, with a diameter of 40 mm. Place the test piece on several points at the edges (distance from the device = 1 meter) of the 275° safety area. The safety laser scanner must detect the test piece at each position so that undetected access to the hazardous area is not possible.

Do not attempt to insert the test piece into dangerous parts of the machine located in the chosen so that undetected access to the hazardous area is not possible.

The device display will show the "Commit On Field" warning message.

The device will now switch to online mode.

15. If the test area is not compliant, an error message will be displayed. Clear the required area and retry.

16. To validate the calibration procedure, the user must test the device detection capability with a test configuration.

To test the detection capability of the device(s), use a suitable test piece, e.g. an optically dark, opaque cylinder, with a diameter of 40 mm. Place the test piece on several points at the edges (distance from the device = 1 meter) of the 275° safety area. The safety laser scanner must detect the test piece at each position so that undetected access to the hazardous area is not possible.

The device display will show the "Commit On Field" warning message.

The device will now switch to online mode.

17. After window calibration has successfully completed, the following fault message is displayed. Click OK.

If window calibration fails, the Safety Laser Scanner remains in offline mode until power-off. Repeat the window replacement procedure described above. Should the calibration fail again, replace the window or contact Datalogic to replace the device.

CE COMPLIANCE

CE marking states the compliance of the product with essential requirements listed in the applicable European directive. Since the directives and applicable standards are subject to continuous updates, and since Datalogic promptly adapts these updates, therefore the EU declaration of conformity is a living document. The EU declaration of conformity is available for competent authorities and customers through Datalogic commercial reference contacts. Since April 20th, 2016 the main European directives applicable to Datalogic products require inclusion of an adequate analysis and assessment of the risk(s). This evaluation was carried out in relation to the applicable points of the standards listed in the Declaration of Conformity. Datalogic products are mainly designed for integration purposes into more complex systems. For this reason, it is under the responsibility of the system-integrator to do a new risk assessment regarding the final installation.

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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