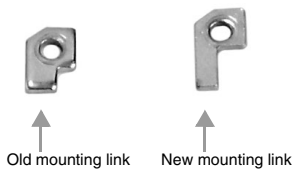
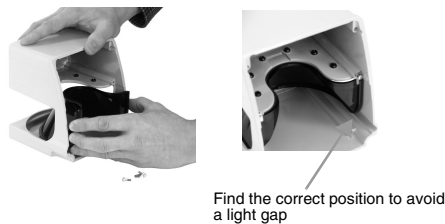
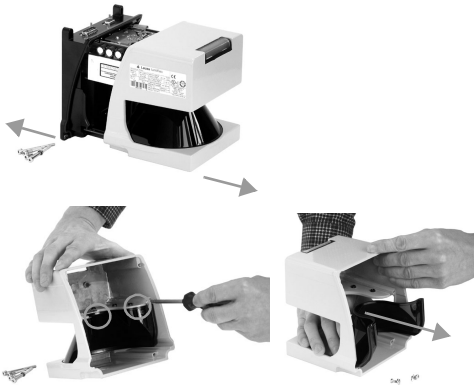




Mounting Instruction



Replacing the RS4-4 optical window



Old mounting link New mounting link

General notes

- Optical windows may only be replaced by instructed, skilled personnel.
- All work must be performed in a clean setting (most dust-free environment possible, a workshop, for example, is unsuitable for performing work inside the unit)..

Follow the instructions step by step:

1. Remove the housing elements

Unscrew the four socket-head cap screws on the back panel. Carefully pull the two housing parts apart on a level surface.

2. Remove the optical window

Unscrew the mounting tab screws and remove the mounting tabs

Press the old optical window back and out of the housing

3. Check the condition of the scanner

Please note:

Check the mirror, optical lens and housing elements for dust and, if needed, blow them clean with a dry, non-lubricated, light blast of air. No parts inside the unit may be touched and fingerprints should be avoided (finger grease etc. will cause the unit to malfunction)

4. Insert the new optical window

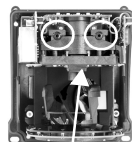
Hold the new optical window on the sides and carefully put it into its proper position while gently squeezing the window ends together. Make sure that the rubber seal is not damaged and that it is properly positioned in the intended slot in the housing.

Check the optical window and make sure it is positioned properly. There should not be any visible gap between the window and the housing.

Now fasten the new window in place using the mounting links. Gently press your thumb on the outer-most edge of the window to help tighten the screw. The new mounting link is used since 2002. You can order the new ones for free. The order number is 50040217.



Retaining bolt



Rubber grommets



Calibrate the new window

After the window has been properly assembled, it is necessary to align the window. The scanner cannot be guaranteed to work perfectly if the window is not aligned!



Warning:

The calibration procedure must be performed at an ambient temperature of 20°C - 25°C! Authorization level Service and the appropriate password and security disk are necessary to calibrate the optical window.

Safety notes:

The front optical window (dark red) must be in new condition and clean. Dirty, scratched windows may not be calibrated. These would present a safety risk since it is possible that not enough laser light can be emitted and therefore not recognized.

5. Reassemble the housing

When reassembling the unit, make sure that both retaining bolts slide into the rubber grommets intended for them. To do this, carefully join the two housing parts on a level surface.

Then carefully tighten the screws crosswise on the back panel of the housing.
Remove any fingerprints that might be on the window

Procedure when using configuration software RS4soft version 1.08

1. Start the PC
2. If needed, copy the file rs4su4.dat onto a disk
3. Connect X1 (supply voltage with active field pair) and X2 (RS232 cable 1:1)
4. Insert disk
5. Start the RS4-4 configuration software
6. Choose the Service authorization level
7. Enter password: wincalib
8. Confirm the echo data reported by the scanner
9. Click the „Adjust window supervision“ icon under „RS4 diagnostics“
10. Start window calibration with „Calibration“ and wait (typical values lie between 100 - 700)
11. Close by clicking OK
12. The file rs4su4.dat is available at your Leuze lumiflex service.

Procedure when using configuration software RS4soft version 1.09

1. Start the PC
2. Connect X1 (supply voltage with active field pair) and X2 (RS232 cable 1:1)
3. Start the RS4-4 configuration software
4. Choose the authorization level „Authorized Customer“
5. Confirm the echo data reported by the scanner
6. Click the „Adjust window supervision“ icon under „RS4 diagnostics“
7. Start window calibration with „Calibration“ and wait (typical values lie between 100 - 700)
8. Close by clicking OK

Please refer to the Connecting and Operating Instructions ROTOSCAN RS4-4 and the Operator's Manual RS4soft.