



SL EZR Strip Installation Guide

Quarterhill road-traffic products,
fiber-optic sensors



Purpose

Replacing the sensor in an existing SL EZ frame with a new SL EZR strip, without roadworks.

Safety and Handling Notes

- Do not bend the new strip beyond its natural flexibility. The internal glass fiber can fracture.
- Do not overbend the feeder cable or connector assembly. Respect the limits given in the EZ/EZR datasheet.
- All contact surfaces of the new SL EZR strip must be free of oil, dirt, debris, grease, and moisture.
- Removal and replacement videos are available from Quarterhill technical support.

Tools and Materials

- Electric screwdriver with 5 mm HEX key
- Chisel
- Hammer
- Crowbar
- Cloth soaked in alcohol or cleaning spirits
- Trigger Tester, for fiber integrity verification
- Termination Kit, for connector replacement if needed
- EZR Installation Tool, required for proper seating

Installation Procedure

- 1. Remove the old sensor strip.** Remove the cable outlet cover with the 5 mm HEX key. Insert the chisel between the old strip and the frame and tap gently with the hammer to open an initial gap. Switch to the crowbar and apply alternating pressure on the left and right sides to separate the sensor from the frame. Take care not to damage the frame during removal.

- 2. Inspect and clean the frame.** Confirm the frame is still tightly fastened in the concrete, and re-secure it if necessary. Clean the frame slot so it is free of oil, dirt, debris, grease, and moisture, using alcohol or cleaning spirits on a cloth, and let it dry completely.
- 4. Route the cable and test integrity.** Feed the fiber cable carefully through the conduit to the booth. Do not pull it by the end connectors. Verify sensor integrity with the Trigger Tester or an alternative light source, checking visually at the connector end. If a connector is damaged during routing, replace it with the Termination Kit and retest.
- 6. Seat the strip.** Start at the cable outlet side. Place the SL EZR Installation Tool vertically on the strip and hammer alternately on the lower and higher sides, progressing along the entire length. Do not hammer the SL EZR strip into the slot without the SL EZR Installation Tool, or the sensor may extend and no longer fit the frame.
- 3. Prepare the adhesive.** The SL EZR strip has factory-applied double-sided adhesive tape on its bottom. Remove the yellow protective film from the tape just before installation.
- 5. Position the strip.** Place the SL EZR strip in the frame slot with the chamfered side facing outward. Align it precisely at the cable entry point so the strip covers the slot with no length difference on either side. If the strip is slightly too long, cut off up to 10 mm.
- 7. Trim if needed.** If the strip extends beyond the frame after installation, trim a maximum of 10 mm at the sensor end.
- 8. Verify and close.** Confirm the frame is still tightly fastened in the concrete, and re-secure it if necessary. Clean the frame slot so it is free of oil, dirt, debris, grease, and moisture, using alcohol or cleaning spirits on a cloth, and let it dry completely.

Technical Specifications

Specification	Value
Sensor Fiber	Glass fiber construction
Adhesive	Factory-applied double-sided tape
Maximum Cut Allowance	10 mm at either end
Height Tolerance	1 mm or less above the frame and road surface
Feeder Cable	Protect from over-bending and excessive tension, following the limits specified in the EZ/EZR datasheet