HOW TO USE SOFO® INSTALLATION KIT

Thank you for purchasing SOFO® deformation sensors. This brochure gives you basic information on how to use the SOFO® installation Kit in the most common types of applications. If this brochure does not cover your type of installation please contact SMARTEC SA, your local SOFO® Distributor or Certified Solution Provider to obtain additional information. Non-specified uses are prohibited.

Three types of kit are available, and each one in two variants depending on L-Brackets material:

**Kit 1: Concrete – basic installation kit:**
- 2 L-Brackets in Aluminum (variant 1) or in Stainless Steel (variant 2)
- 4 Stainless Fastening Screws ø5 DIN 96
- 4 Stainless Washers M5 DIN 9021
- 4 Plastic Wall plugs ø6
- 10 Plastic U-ties ø6
- 1 Drill Ø6 (every 25 holes including holes for L-Brackets and U-ties)

**Kit 2: Concrete – deluxe installation kit:**
- 2 L-Brackets in Aluminum (variant 1) or in Stainless Steel (variant 2)
- 4 Stainless Fastening Screws M6 DIN 933
- 4 Stainless Washers M6 DIN 125A
- 4 Brass Plug M6
- 10 Plastic U-ties ø6
- 1 Drill Ø6 for the U-ties (every 25 holes)
- 1 Drill ø8 for the L-Brackets (every 6 kits)

**Kit 3: Steel installation kit:**
- 2 L-Brackets in Aluminum (variant 1) or in Stainless Steel (variant 2)
- 4 Stainless Fastening Screw M6 DIN 933
- 8 Stainless Washers M6 DIN 125A
- 4 Stainless Nuts M6 DIN 934
- 1 Drill Ø7 (every 6 kits)

**SOFO® sensors are fixed by using supplied L-Bracket.**
Position of perforation is shown following (top view):

General Installation Instructions
Fix L-brackets on sensor's anchor pieces respecting fastening plaquette original orientation (see User's manual). Select sensor position and mark fastening position with a permanent pen. Make sure that distance between holes is 27 mm as shown. Remember to maintain the same L-bracket orientation as shown in the following picture.

**Kit 1 Installation instructions (Concrete - basic):**
Drill holes with the supplied concrete drill – (min. depth 29 mm). Insert Plastic Wall plugs in the holes. Fix fastening screw. (U-ties needs holes ø6 min. depth 25mm each 25 cm).

**Kit 2 Installation instructions (Concrete deluxe):**
Drill holes with the supplied concrete drill ø6 (min. depth 29 mm). Insert Brass plugs in the holes, fix fastening screw. (U-ties needs holes ø6 min. depth 25mm each 25 cm).

**Kit 3 Installation instructions (Steel):**
Drill holes with the supplied steel drill. Fix fastening bolts using washers and nuts.

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CAUTION
Do not excessively bend any part of the sensor.
Anchor pieces and tubes must be aligned.
Do not expose the sensor and aluminium L-brackets to acid ambient, fire or permanent sunshine.
Installing sensors embedded in concrete we suggest using stainless steel L-bracket instead aluminium L-bracket. The chemical reaction between concrete and aluminium could cause corrosion.

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