

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 $\#5$ DIN 96
- 4 Stainless Washers M5 DIN 9021
- 4 Plastic Wall plugs $\#6$
- 10 Plastic U-ties $\#6$
- 1 Drill $\#6$ (every 25 holes including holes for L-Brackets and U-ties)

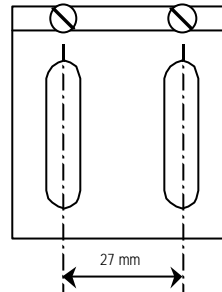
Kit 2: Concrete – deluxe installation kit:

- 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 $\#6$
- 1 Drill $\#6$ for the U-ties (every 25 holes)
- 1 Drill $\#8$ for the L-Brackets (every 6 kits)

Kit 3: Steel installation kit:

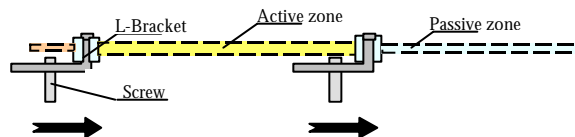
- 2 L-Brackets in Aluminum (variant 1) or in Stainless Steel (variant 2)
- 4 Stainless Fastening Screw M6 DIN 933
- 8 Stainless Washers M6 DIN 125A
- 4 Stainless Nuts M6 DIN 934
- 1 Drill $\#7$ (every 6 kits)

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 $\#6$ min. depth 25mm each 25 cm).

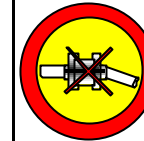
Kit 2 Installation instructions (Concrete deluxe):

Drill holes with the supplied concrete drill $\#8$ (min. depth 29 mm). Insert Brass plugs in the holes, fix fastening screw. (U-ties needs holes $\#6$ min. depth 25mm each 25 cm).

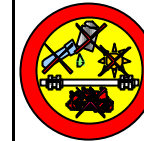
Kit 3 Installation instructions (Steel):

Drill holes with the supplied steel drill. Fix fastening bolts using washers and nuts.

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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