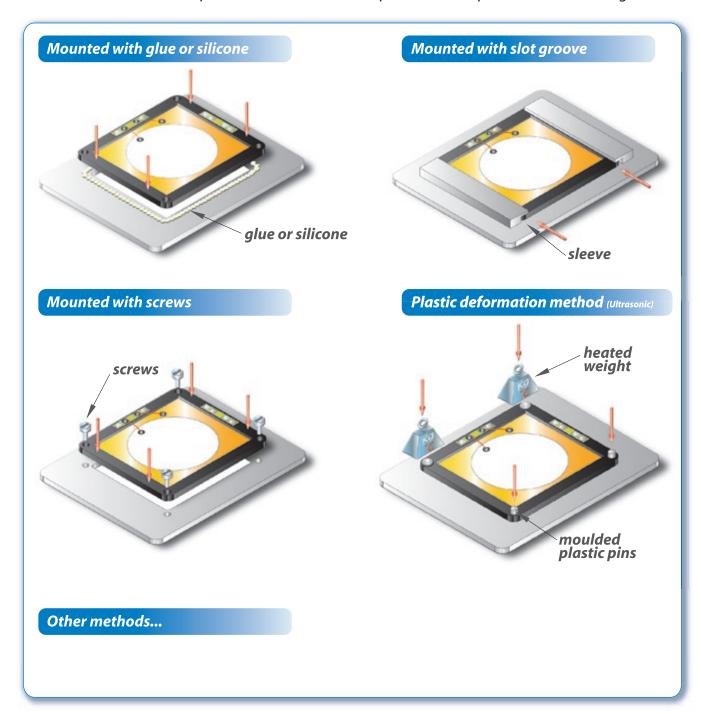


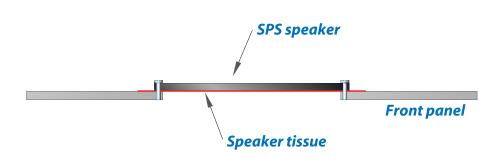
MOUNTING INSTRUCTIONS FOR SPS-SPEAKERS

The SPS speakers can be mounted in several different ways. The mounting methods, illustrated below, are recommended to mount all the SPS speaker models. Please keep in mind that not too much mechanical stress is placed on the frame of the piezoceramic speaker after mounting.

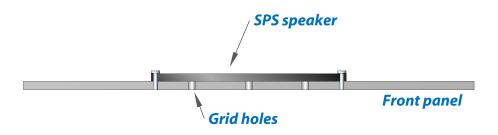




Speaker tissue

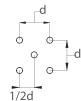


Front holes



Front holes of 1 mm Ø for model SPS-2220-03 2 mm Ø for model SPS-3530-03 2 mm Ø for model SPS-4640-03 2 mm Ø for model SPS-8770-03

Distance front holes d=3 mm for model SPS-2220-03 d=5 mm for model SPS-3530-03 d=5 mm for model SPS-4640-03 d=10 mm for model SPS-S8770-03



*Other designs of the hole pattern (grids) are also suitable. (SPS-2220-03, SPS-3530-03)

grid examples

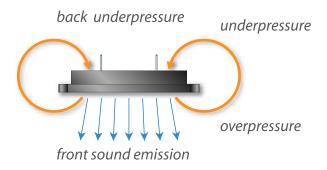




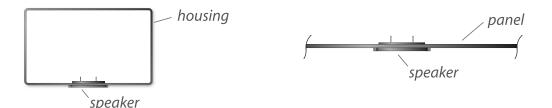
MOUNTING RECOMMENDATIONS

Important note:

Piezoceramic speakers produce sound by the forward and backward movement of a flat membrane. During this movement the membrane creates an air pressure wave in front and at the backside of the membrane. A forward movement will create a slight overpressure at the frontside and a slight underpressure at the backside and vice versa. It is therefore important that the front and backside are acoustically isolated from each other to avoid air pressure cancellation and consequently a serious reduction of the sound output.



When a speaker is mounted in a panel or in the wall of a housing, the front side is acoustically isolated from the backside.



Information furnished by Sonitron N.V. is believed to be accurate and reliable. Specifications are subject to change without prior notice. No patent rights or licenses described herein are implied or granted to any third party. The use of Sonitron products as critical components in life support systems, is not authorised without the explicit written approval of Sonitron N.V.



MOUNTING INSTRUCTIONS FOR SCS-SPEAKERS

The SCS speakers can be mounted in several different ways. The recommended mounting methods illustrated below are the best ways to mount all the SCS speaker models.

