

# Stress Gauges SF series CE

These gauges are intended to measure the stress in an optional direction of the specimen in plane stress field. The gauges are sensitive not only in these axial direction but also in the transverse direction, and the sensitivity ratio of the transverse direction to the axial direction is equal to the Poisson's ratio of the specimen material. In addition, the gauges are not sensitive to the shearing strain. Accordingly, the output of the gauges is proportional to the stress in the axial direction. The gauges are available in three types depending on the Poisson's ratio of the specimen material.

<b>Operating temperature range</b> -20~+200°C	<b>Applicable adhesives</b> NP-50B C-1 CN
<b>Temperature compensation range</b> +10~+100°C	-20~+200°C -20~+200°C -20~+120°C



Please specify the type number as shown in the example below.

**SFA-285-11-3LJC-F**

↑ Gauge series name  
 ↑ Poisson's ratio of specimen  
 ↑ Objective material for temperature compensation  
 ↑ Length in meter and type of integral leadwire compliant leadwire CE

Objective material for temperature compensation (coefficient of linear thermal expansion  $\times 10^{-6}/^{\circ}\text{C}$ )  
 -11: Mild steel -17: Stainless steel -23: Aluminium

Note: The backing color of SF series gauges are the same for every material for temperature compensation.

Gauge pattern	Poisson's ratio of specimen	Type	Gauge size(mm) Length Width	Backing size(mm) Length Width	Resistance $\Omega$
<b>● Single axis</b>  SFA-285	0.285	SFA-285-11	4 3	9 6	120
	0.305	SFA-305-17			
	0.330	SFA-330-23			
 $\times 3$ Minimum order quantity is 10 strain gauges. These strain gauges are available with integral leadwires attached. (made to order)					