Polyester Foil Strain Gauges PF series CE

These are foil strain gauges utilizing a polyester resin backing which is the same as the P series. The gauge length is available in 3 ranges of 10, 20 and 30mm, so it is suited mainly to strain measurement on concrete or mortar.

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

PFL -30 -11 -3LJC-F

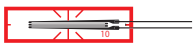
- PFL: Gauge series name
- -30: Gauge length
- -11: Objective material for temperature compensation
- -3LJC-F: Length in meter and type of integral leadwire CE compliant leadwire

Objective material for temperature compensation
(coefficient of linear thermal expansion ×10^{-6}/°C)
-11: Concrete

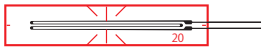
Operating temperature range −20～+80℃
Temperature compensation range +10～+80℃

Applicable adhesives	
CN-E	−20～+80℃
RP-2	−20～+80℃
PS	−20～+80℃

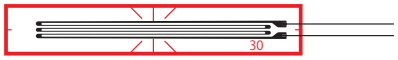
●Single axis



PFL-10-11

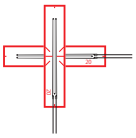


PFL-20-11

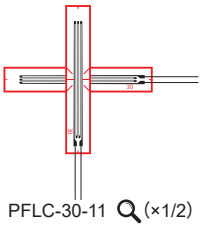


PFL-30-11

●0° /90° 2-axis

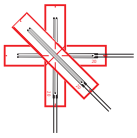


PFLC-20-11 (×1/2)

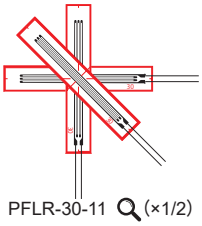


PFLC-30-11 (×1/2)

●0° /45° /90° 3-axis



PFLR-20-11 (×1/2)



PFLR-30-11 (×1/2)

Gauge pattern	Type	Gauge size(mm) Length	Gauge size(mm) Width	Backing size(mm) Length	Backing size(mm) Width	Resistance Ω
Single axis	PFL-10-11	10	0.9	17.5	5	120
	PFL-20-11	20	1.2	28	6	120
	PFL-30-11	30	2.3	40	7	120
0°/90° 2-axis	PFLC-20-11	20	1.2	28	28	120
	PFLC-30-11	30	2.3	40	40	120
0°/45°/90° 3-axis	PFLR-20-11	20	1.2	28	28	120
	PFLR-30-11	30	2.3	40	40	120

Minimum order quantity is 10 strain gauges.

Dedicated leadwire recommended for PF series strain gauges

We supply various leadwires dedicated to strain gauges so as to meet our customers' requirements. Please refer to page 30 to 38 for the details of combination of a strain gauge and a leadwire. For CE marked strain gauges, only the leadwires using lead-free solder are available.

Type and designation of leadwires

Usage	Leadwire name	Operating temperature range of leadwire (°C)	Type number example
General purpose (without temperature change)	Paralleled vinyl LJB-F Paralleled vinyl LJC-F	−20 ～+80	PFL-10-11-3LJB-F PFL-10-11-3LJC-F
General use	3-wire paralleled vinyl LJBT-F 3-wire paralleled vinyl LJCT-F	−20 ～+80	PFL-10-11-3LJBT-F PFL-10-11-3LJCT-F
1-Gauge 4-Wire measurement	Polypropyrene 4-wire paralleled LQM-F	−20 ～+100	PFL-10-11-3LQM-F (modular plug attached)

NB: No integral leadwire is available for rosette strain gauges PFLC and PFLR.