Polyester Strain Gauges P series

CE

These are wire strain gauges with a grid made of fine electric resistance wire formed on a polyester resin backing. They are used for measurement of surface strain on concrete, mortar or rocks, and also for short-term measurement on wood.

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

PL -60 -11 -3LJC-F

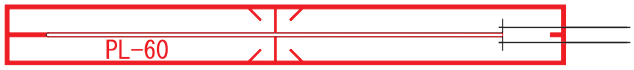
- PL: Gauge series name
- -60: Gauge length
- -11: Objective material for temperature compensation
- -3LJC-F: Length in meter and type of integral leadwire CE compliant leadwire

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

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

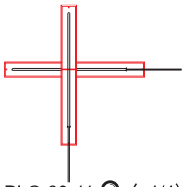
Applicable adhesives	
CN-E	−20～+80℃
RP-2	−20～+80℃
PS	−20～+80℃

●Single axis



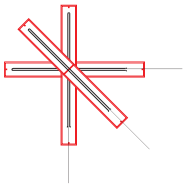
PL-60-11

●0°/90° 2-axis



PLC-60-11 (×1/4)

●0°/45°/90° 3-axis



PLR-60-11 (×1/4)

Gauge pattern	Type	Gauge size(mm) Length	Gauge size(mm) Width	Backing size(mm) Length	Backing size(mm) Width	Resistance Ω
Single axis	PL-60-11	60	1	74	8	120
	PL-90-11	90	1	104	8	120
	PL-120-11	120	1	134	8	120
0°/90° 2-axis	PLC-60-11	60	1	74	74	120
0°/45°/90° 3-axis	PLR-60-11	60	1	74	74	120

Minimum order quantity is 10 strain gauges.

Dedicated leadwire recommended for P series strain gauges

We supply various leadwires dedicated to strain gauges so as to meet our customers' requirements. Please refer to page 29 to 37 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	PL-60-11-3LJB-F PL-60-11-3LJC-F
General use	3-wire paralleled vinyl LJBT-F 3-wire paralleled vinyl LJCT-F	−20～+80	PL-60-11-3LJBT-F PL-60-11-3LJCT-F
1-Gauge 4-Wire measurement	Polypropyrene 4-wire paralleled LQM-F	−20～+100	PL-60-11-3LQM-F (modular plug attached)

NB: No integral leadwire is available for rosette strain gauges PLC and PLR.