



Waterproof Strain Gauges WF series CE

These gauges eliminate the need for moisture-proofing coating, which is sometimes troublesome in a field test. They have an integral vinyl leadwire, and whole area of the strain gauges and the leadwire junction are coated with epoxy resin. The coating is transparent and flexible, so the positioning and bonding works are very easy. By merely bonding the gauges with CN or P-2 adhesive, outdoor or underwater measurement for a short-term becomes possible. These gauges are also effective in omitting primary coating in case of applying a multi-layer coating.

Operating temperature range	0~+80°C	Applicable adhesives	CN	0~+80°C
Temperature compensation range	+10~+80°C		P-2	0~+80°C
			EB-2	0~+80°C

Example of type number designation
WFLA -3 -350 -11 -3LDBB

Suffix code for temperature compensation materials
 -11: Mild steel ■ -17: Stainless steel ■ -23: Aluminium ■

For ordering, the above suffix code should be added to the basic gauge type

Gauge pattern	Type	Gauge size(mm)		Backing size(mm)			Resistance Ω			
		Length	Width	Length	Width	Thickness				
<p>● Single axis</p> <p>0.08mm² integral vinyl leadwire Total leadwire resistance per meter : 0.44Ω</p> <p>2-wire system</p> <p>2-wire system diagram showing gauge backing length, gauge backing width, and backing thickness.</p>	Single element	WFLA-3	3	1.7	17	8	1.5	120		
		WFLA-3-350	3	3.2	17	8	1.5	350		
		WFLA-6	6	2.2	25	11	1.5	120		
		2-wire system	2-element Rosette 0°/90°	WFLA-3	3	1.7	19	16	1.5	120
			WFLA-6	6	2.3	25	21	1.5	120	
			3-element Rosette 0°/45°/90°	WFLA-3	3	1.7	19	16	1.5	120
	WFLA-6	6	2.3	25	21	1.5	120			
<p>● 0° /45° /90° 3-axis Stacked type</p> <p>2-wire system</p>	Single element	WFRA-3	3	1.7	17	8	1.5	120		
		WFRA-6	6	2.2	25	11	1.5	120		
		3-wire system	2-element Rosette 0°/90°	WFRA-3	3	1.7	19	16	1.5	120
			WFRA-6	6	2.3	25	21	1.5	120	
			3-element Rosette 0°/45°/90°	WFRA-3	3	1.7	19	16	1.5	120
		WFRA-6	6	2.3	25	21	1.5	120		
<p>● Single axis</p> <p>3-wire system</p>	Single element	WFLA-3	3	1.7	17	8	1.5	120		
		WFLA-6	6	2.2	25	11	1.5	120		
		2-wire system	2-element Rosette 0°/90°	WFLA-3	3	1.7	19	16	1.5	120
			WFLA-6	6	2.3	25	21	1.5	120	
			3-element Rosette 0°/45°/90°	WFLA-3	3	1.7	19	16	1.5	120
		WFLA-6	6	2.3	25	21	1.5	120		
<p>● 0° /90° 2-element stacked Rosette</p> <p>3-wire system</p>	Single element	WFLA-3	3	1.7	17	8	1.5	120		
		WFLA-6	6	2.2	25	11	1.5	120		
		2-wire system	2-element Rosette 0°/90°	WFLA-3	3	1.7	19	16	1.5	120
			WFLA-6	6	2.3	25	21	1.5	120	
			3-element Rosette 0°/45°/90°	WFLA-3	3	1.7	19	16	1.5	120
		WFLA-6	6	2.3	25	21	1.5	120		
<p>● 0° /45° /90° 3-axis Stacked type</p> <p>3-wire system</p>	Single element	WFRA-3	3	1.7	17	8	1.5	120		
		WFRA-6	6	2.2	25	11	1.5	120		
		2-wire system	2-element Rosette 0°/90°	WFRA-3	3	1.7	19	16	1.5	120
			WFRA-6	6	2.3	25	21	1.5	120	
			3-element Rosette 0°/45°/90°	WFRA-3	3	1.7	19	16	1.5	120
		WFRA-6	6	2.3	25	21	1.5	120		

Minimum order quantity is 10 strain gauges.