

Special Use Sensors - High-Temperature Strain Gages

FEATURES

- Measurement range to 2100°F (1150°C)
- Free-filament Kanthal alloy grids for bonding with ceramic adhesives
- Linear and Tee-rosette patterns

ZC-Series strain gages are etched Kanthal (Fe-Cr-Al alloy) foil grids in free-filament form for high-temperature applications. They are bonded with either ceramic adhesives, or by the use of flame spray.

ZC-Series strain gages cannot be self-temperature compensated, and a dummy compensating gage must be used for minimizing of thermally induced apparent strain (thermal output). Several patterns are available with built-in compensating grids.



ZC-Series strain gages are supplied with a removable high-temperature carrier for gage handling during installation. All patterns have 1 in (25.4 mm) Nichrome ribbon leads spot welded to the gage tabs for leadwire attachment.

GAGE PATTERN Not actual size shown. Enlarged when necessary for	or definition.		
DIMENSIONS inch millimeter		GAGE DESIGNATION	RES. IN OHMS

G1262	G1262			Square linear pattern.	
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	ZC-NC-G1262-120	120
0.062	0.150	0.076	0.076		
1.57	3.81	1.93	1.93		
MATRIX SIZE		N/A			

G1263			Wide linear pattern.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	ZC-NC-G1263-120	120
0.100	0.248	0.179	0.179		
2.54	6.30	4.55	4.55		
MATRIX SIZE		N/A			

High-Temperature Foil Patterns



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DIMENSIONS	inch millimeter	GAGE DESIGNATION	RES. IN OHMS

G1264				Linear pattern with inactive temperature-	compensating grid.
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GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	ZC-NC-G1264-120	120
0.100	0.310	0.179	0.430		
2.54	7.87	4.55	10.92		
MATRIX SIZE		N/A			

G1265	G1265		Linear pattern.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	ZC-NC-G1265-120	120
0.138	0.300	0.138	0.138		
3.51	7.62	3.51	3.51		
MATRIX SIZE		N/A			

G1266 G1272			Linear pattern. Higher resistance linear pattern.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	ZC-NC-G1266-120 ZC-NC-G1272-350	120 350
0.200	0.380	0.135	0.135		
5.08	9.65	3.43	3.43		
MATRIX SIZE		N/A			

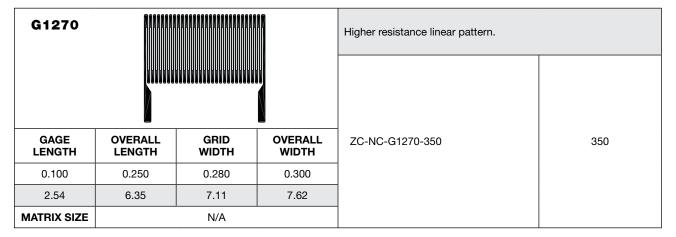
High-Temperature Foil Patterns

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GAGE PATTERN Not actual size shown. Enlarged when necessary for	or definition.	GAGE DESIGNATION	RES. IN OHMS
DIMENSIONS	inch millimeter	GAGE DESIGNATION	NES. IN ORING

G1267		Linear pattern with inactive temperature-	compensating grid.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	ZC-NC-G1267-120	120
0.200	0.503	0.134	0.442		
5.08	12.78	3.40	11.23		
MATRIX SIZE		N/A			

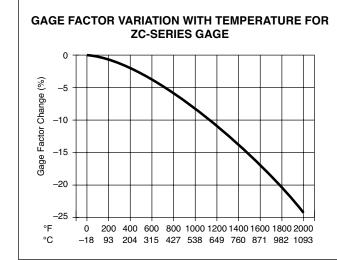
G1269 G1275		Tee-rosette pattern in half-bridge configu	ration.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	ZC-NC-G1269-200 ZC-NC-G1275-350	120 350
0.125	0.278	0.150	0.346		
3.18	7.06	3.81	8.79		
MATRIX SIZE		N/A			

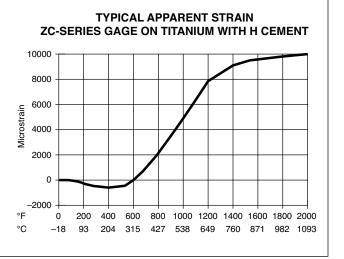


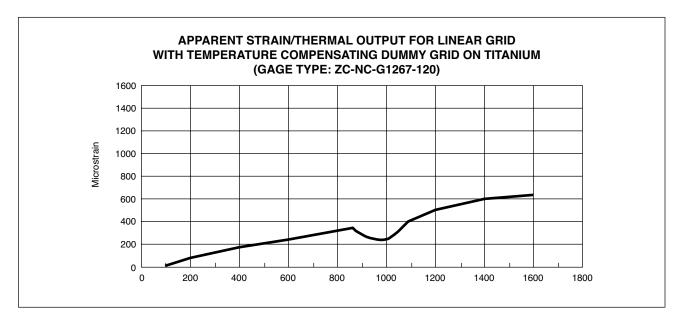
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