



## General Purpose Strain Gages - Delta Rosettes

### FEATURES

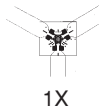
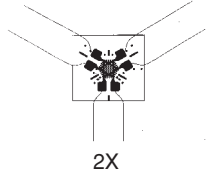



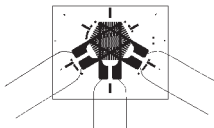
- Gage patterns designed for determining principle stresses and strains
- All patterns have three grids orientated at 0°, 60° and 120° angles
- Both stacked and planar constructions available
- Gage lengths from 0.015 in (0.38mm) to 0.500 in (12.7mm)

GAGE PATTERN		Actual size shown. Enlarged when necessary for definition.		GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
ES = Each section S = Section (S1= Sec 1)		CP = Complete pattern M = Matrix		Insert desired S-T-C number in spaces marked XX.	Tolerance is increased when Option W, E, SE, LE, or P is specified.	
		<div>inch</div> <div>millimeter</div>				



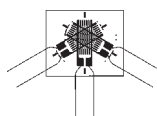

<b>015YC</b>				Micro-miniature three-element 60° delta rosette with one tab common to all sections. See also 015YD pattern. Note: See Strip Patterns datasheet for discussion of common-tab gages.		
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GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	EA-XX-015YC-120 SA-XX-015YC-120  120 ± 0.6% 120 ± 1.0%  E, SE		
0.015 ES	0.063 CP	0.020 ES	0.140 CP			
0.38 ES	1.60 CP	0.51 ES	3.56 CP			
MATRIX SIZE	0.15L x 0.18W		3.8L x 4.6W			

<b>015YD</b>				Micro-miniature three-element 60° delta rosette. Similar to 015YC pattern except each section has separate tabs for electrical isolation.		
<div></div>						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	EA-XX-015YD-120 SA-XX-015YD-120  120 ± 0.6% 120 ± 1.0%  E, SE		
0.015 ES	0.063 CP	0.020 ES	0.140 CP			
0.38 ES	1.60 CP	0.51 ES	3.56 CP			
MATRIX SIZE	0.15L x 0.18W		3.8L x 4.6W			

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ES = Each section S = Section (S1= Sec 1)		CP = Complete pattern M = Matrix		Insert desired S-T-C number in spaces marked XX.	Tolerance is increased when Option W, E, SE, LE, or P is specified.	
		<div>inch</div> <div>millimeter</div>				
<b>030WY</b>				Miniature three-element 60° delta stacked rosette.		
<div><div></div><div></div></div>						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.030 ES	0.17 M	0.030 ES	0.19 M			
0.76 ES	4.3 M	0.76 ES	4.8 M	WA-XX-030WY-120	120 ± 0.8%	
				WK-XX-030WY-120	120 ± 0.8%	
				SA-XX-030WY-120	120 ± 0.8%	
				SK-XX-030WY-120	120 ± 0.8%	
MATRIX SIZE	0.17L x 0.19W		4.3L x 4.8W			
<b>030YB</b>				Miniature three-element 60° delta single-plane rosette.		
<div><div></div><div></div></div>						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.030 ES	0.104 CP	0.030 ES	0.200 CP			
0.76 ES	2.64 CP	0.76ES	5.08 CP	EA-XX-030YB-120	120 ± 0.4%	E, SE
				SA-XX-030YB-120	120 ± 0.8%	
MATRIX SIZE	0.21L x 0.27W		5.3L x 6.9W			
<b>060WY</b>				Small three-element 60° delta stacked rosette.		
<div><div></div><div></div></div>						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.060 ES	0.24 M	0.060 ES	0.30 M	WA-XX-060WY-120	120 ± 0.5%	
				WK-XX-060WY-120	120 ± 0.5%	
				WK-XX-060WY-350	350 ± 0.5%	
				WK-XX-060WY-10C	1000 ± 0.5%	
				SA-XX-060WY-120	120 ± 0.5%	
				SK-XX-060WY-120	120 ± 0.5%	
				SK-XX-060WY-350	350 ± 0.5%	
				SK-XX-060WY-10C	1000 ± 0.5%	
MATRIX SIZE	0.24L x 0.30W		6.1L x 7.6W			


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GAGE PATTERN		Actual size shown. Enlarged when necessary for definition.		GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
ES = Each section S = Section (S1= Sec 1) M = Matrix		<div>inch</div> <div>millimeter</div>		Insert desired S-T-C number in spaces marked XX.	Tolerance is increased when Option W, E, SE, LE, or P is specified.	
<div>062YE</div> <div><div></div><div></div></div>				Small 60° delta single-plane rosette. Normally used in the EA Series with Option W.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	EA-XX-062YE-350 SA-XX-062YE-350  350 ± 0.2% 350 ± 0.4%  W, E		
0.062 ES	0.150 CP	0.062 ES	0.400 CP			
1.57 ES	3.81 CP	1.57 ES	10.16 CP			
MATRIX SIZE	0.26L x 0.47W		6.6L x 11.9W			
<div>120WY</div> <div></div>				Three-element 60° delta stacked rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	WA-XX-120WY-120 WA-XX-120WY-350 WD-DY-120WY-350 WK-XX-120WY-120 WK-XX-120WY-350 SA-XX-120WY-120 SA-XX-120WY-350 SK-XX-120WY-120 SK-XX-120WY-350 SD-DY-120WY-350  120 ± 0.5% 350 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 350 ± 0.5%		
0.120 ES	0.34 M	0.080 ES	0.40 M			
3.05 ES	8.6 M	2.03 ES	10.2 M			
MATRIX SIZE	0.34L x 0.40W		8.6L x 10.2W			
<div>125UY</div> <div><div>'C' FEATURE</div><div></div></div>				Three-element 60° delta single-plane rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	CEA-XX-125UY-120 CEA-XX-125UY-350  120 ± 0.4% 350 ± 0.4%  CEA-Series Strain Gages feature large copper solder tabs and a completely encapsulated grid.		
0.125 ES	0.375 CP	0.062 ES	0.375 CP			
3.18 ES	9.53 CP	1.57 ES	9.53 CP			
MATRIX SIZE	0.50L x 0.44W		12.7L x 11.2W			

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GAGE PATTERN <small>Actual size shown. Enlarged when necessary for definition.</small>		GAGE DESIGNATION <small>Insert desired S-T-C number in spaces marked XX.</small>	RES. IN OHMS <small>Tolerance is increased when Option W, E, SE, LE, or P is specified.</small>	OPTIONS AVAILABLE
ES = Each section S = Section (S1= Sec 1)	CP = Complete pattern M = Matrix	<div>inch millimeter</div>		

<b>125YA</b>				Compact three-element 60° delta rosette with large solder tabs.		
				EA-XX-125YA-120 EP-08-125YA-120 SA-XX-125YA-120 SK-XX-125YA-350	120 ± 0.2% 120 ± 0.2% 120 ± 0.4% 350 ± 0.4%	L, LE
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.125 ES	0.375 CP	0.062 ES	0.375 CP			
3.18 ES	9.53 CP	1.57 ES	9.53 CP			
MATRIX SIZE	0.55L x 0.45W	14.0L x 11.4W				

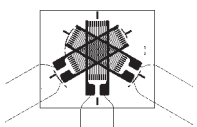
<b>125YF</b>				Three-element 60° delta rosette with high-resistance grid. Designed particularly for use with Option W in the EA Series.		
				EA-XX-125YF-350 WA-XX-125YF-350	350 ± 0.2% 350 ± 0.4%	W W*
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.125 ES	0.283 CP	0.060 ES	0.620 CP			
3.18 ES	7.19 CP	1.52 ES	15.75 CP			
MATRIX SIZE	0.36L x 0.70W	9.1L x 17.8W				


<b>250UY</b>				Three-element 60° delta single-plane rosette.		
				CEA-XX-250UY-120 CEA-XX-250UY-350	120 ± 0.4% 350 ± 0.4%	CEA-Series Strain Gages feature large copper solder tabs and a completely encapsulated grid.
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.250 ES	0.750 CP	0.125 ES	0.750 CP			
6.35 ES	19.05 CP	3.18 ES	19.05 CP			
MATRIX SIZE	0.99L x 0.85W	25.1L x 21.6W				

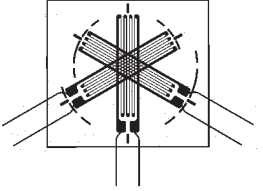
\*Options available but not normally recommended. See Gage Series and Optional Features datasheet for details.

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GAGE PATTERN <small>Actual size shown. Enlarged when necessary for definition.</small>		GAGE DESIGNATION <small>Insert desired S-T-C number in spaces marked XX.</small>	RES. IN OHMS <small>Tolerance is increased when Option W, E, SE, LE, or P is specified.</small>	OPTIONS AVAILABLE
ES = Each section S = Section (S1= Sec 1) M = Matrix	CP = Complete pattern	inch millimeter		

<b>250WY</b>  				Three-element 60° delta stacked rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	WA-XX-250WY-120 WA-XX-250WY-350 WD-DY-250WY-350 WK-XX-250WY-120 WK-XX-250WY-350 SA-XX-250WY-120 SA-XX-250WY-350 SK-XX-250WY-120 SK-XX-250WY-350 SD-DY-250WY-350	120 ± 0.5% 350 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 350 ± 0.5%	
0.250 ES	0.51 M	0.125 ES	0.60 M			
6.35 ES	13.0 M	3.18 ES	15.2 M			
MATRIX SIZE	0.51L x 0.60W		13.0L x 15.2W			

<b>250YA</b>  				Three-element 60° delta single-plane rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	EA-XX-250YA-120 EP-08-250YA-120 SA-XX-250YA-120 SK-XX-250YA-350	120 ± 0.2% 120 ± 0.2% 120 ± 0.4% 350 ± 0.4%	L, LE
0.250 ES	0.750 CP	0.125 ES	0.750 CP			
6.35 ES	19.05 CP	3.18 ES	19.05 CP			
MATRIX SIZE	0.99L x 0.85W		25.1L x 21.6W			

<b>500WY</b>  				Three-element 60° delta stacked rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	WA-XX-500WY-120 WA-XX-500WY-350 WD-DY-500WY-350 WK-XX-500WY-350 SA-XX-500WY-120 SA-XX-500WY-350 SK-XX-500WY-350 SD-DY-500WY-350	120 ± 0.5% 350 ± 0.5% 350 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 350 ± 0.5% 350 ± 0.5%	
0.500 ES	0.76 M	0.120 ES	0.84 M			
12.70 ES	19.3 M	3.05 ES	21.3 M			
MATRIX SIZE	0.76L x 0.84W		19.3L x 21.3W			