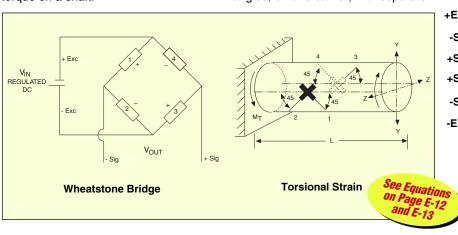
TRANSDUCER QUALITY STRAIN GAGE SHEAR GAGES—FULL BRIDGE SHEAR

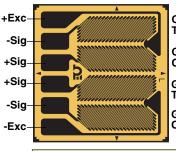


OMEGA® offers full bridge transducer quality strain gages for shear and torsional strain applications. These strain gages can be used in transducer design for shear beam load cells, or they can also be used for reaction torque on a shaft.

SGT-2DD/350-SY** has 2 half bridges on one carrier piece. Each half bridge has a dual shear pattern, with opposite grids and a common lead/solder pad. SGT-3/700-FB** has 4 independent shear strain gages, with opposite grid angles, on one carrier, with separate

leads/pads (electrically independent). Below we show one wiring example; SGT-2DD/350-SY** used to measure a reaction torque on a shaft. The strain gages have been numbered, and the leads/solder pads labeled.





Gage 1 Tension

Gage 4 Compression

Gage 3 Tension

Gage 2 Compression

† Di GRII

† Dimensions Key:

A: Active gage length B: Active gage width

CARRIER

C: Matrix length

D: Matrix width

4 STRAIN GAGES ON ONE CARRIER PIECE, 2 HALF BRIDGES CAN BE USED AS 1 FULL WHEATSTONE BRIDGE

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		PRICE PER	NOM. RESIS-	DIMENSIONS mm (in) [†]						
	MODEL NO	PKG	TANCE	GRID		CARRIER		MAX V*		TEMP
	MODEL NO.	OF 5	(Ω)	Α	В	С	D	(Vrms)	TERMINATION	COMP
Shown actual size,	SGT-2DD/350-SY11	\$63	350	1.6	1.7	hear patte	ern.	9	Ribbon Leads	ST
7.6 mm	SGT-2DD/350-SY13	63	350	(0.063) Full	(0.067) bridge, s			13	Ribbon Leads	AL
	SGT-2DD/350-SY41	53	350	2 half bridge with common lead/solder pad				9	Solder Pads	ST
Leads not shown	SGT-2DD/350-SY43	53	350		350	Ω		13	Solder Pads	AL

4 STRAIN GAGES ON ONE CARRIER PIECE CAN BE USED AS 1 FULL WHEATSTONE BRIDGE

To Order <i>(Specify Model Number)</i>										
		PRICE PER	NOM. RESIS-		DIMEN: mm	SIONS (in) [†]				
		PKG	TANCE	GRID		CARRIER		MAX V*		TEMP
	MODEL NO.	OF 5	(Ω)	Α	В	С	D	(Vrms)	TERMINATION	COMP
Shown actual size, 9.8 mm Leads not shown	SGT-3/700-FB11	\$99.50	700	1.9 (0.075) Full brid	3.4 (0.134) Ige, 4 she	ear strain gages with separate der pads	(0.323)	11	Ribbon Leads	ST
	SGT-3/700-FB13	99.50	700					16	Ribbon Leads	AL
	SGT-3/700-FB41	84.50	700	on or	ne carrier leads/sol		arate	11	Solder Pads	ST
	SGT-3/700-FB43	84.50	700		700) Ω		16	Solder Pads	AL

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^{*} Maximum permitted bridge energizing voltage (Vrms). ** SY11, SY13, SY41 or SY43; FB11, FB13, FB41 or FB43.

Note: For strain gage accessories see pages E-56 to E-59. **Ordering Example: SGT-2DD/350-SY11**, package of 5, full bridge shear, with ribbon leads, matched to steel, **\$63**.



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