

SHEAR WEB COMPRESSION ONLY (SW) SERIES LOAD CELLS

FEATURES

- Low Height
- Guaranteed Maximum Off-Center Load and Moment Error
- Low Creep
- Low Susceptibility to Magnetic Fields
- Counterbored Mounting Holes (w/out Base)
- Output to 4mV/V
- Integral Compression Interface (above 5K)
- 5pt Compression Calibration
- Proprietary Modulus Compensated Strain Gages



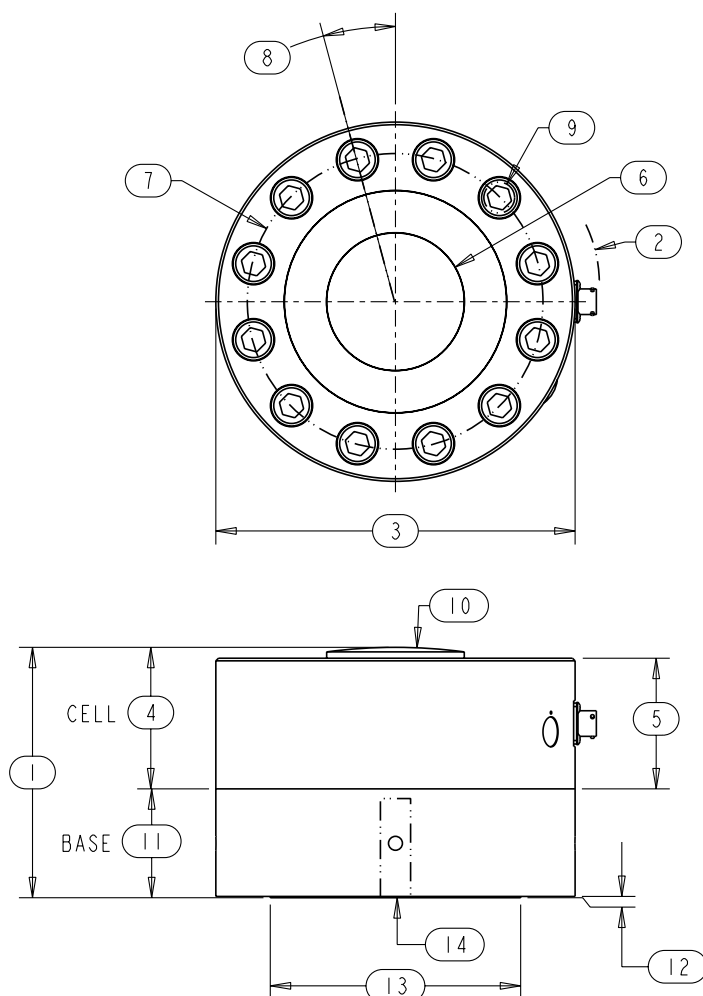
SPECIFICATIONS

Model		SW11 300, 500, 1K, 2K	SW11	SW21	SW31	SW41
Capacity	U.S. lbf.		5K, 10K	25K, 50K	100K	200K
PARAMETERS	Metric kN	1.5, 2.5, 5, 10	25, 50	100, 250	500	1000
ACCURACY						
Static Error Band, % Rated Output		+/-0.030	+/-0.040	+/-0.040	+/-0.040	+/-0.050
Nonlinearity, % Rated Output		+/-0.030	+/-0.040	+/-0.050	+/-0.050	+/-0.050
Hysteresis, % Rated Output		+/-0.030	+/-0.040	+/-0.050	+/-0.050	+/-0.050
Nonrepeatability, % Rated Output		+/-0.010	+/-0.010	+/-0.010	+/-0.010	+/-0.010
Creep, % in 20 minutes		+/-0.025	+/-0.025	+/-0.025	+/-0.025	+/-0.025
Off-Center Load Sensitivity, %/inch		+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250
Side Load Sensitivity, %		+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250
Zero Balance, % Rated Output		+/-1.0	+/-1.0	+/-1.0	+/-1.0	+/-1.0
TEMPERATURE						
Range, Compensated, °F		+15 to +115	+15 to +115	+15 to +115	+15 to +115	+15 to +115
Range, Compensated, °C		-10 to +45	-10 to +45	-10 to +45	-10 to +45	-10 to +45
Range, Operating, °F		-65 to +200	-65 to +200	-65 to +200	-65 to +200	-65 to +200
Range, Operating, °C		-55 to +90	-55 to +90	-55 to +90	-55 to +90	-55 to +90
Effect on Sensitivity, % Rdg/ °F		+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008
Effect on Sensitivity, % Rdg/ °C		+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015
Effect on Zero, % Rated Output/ °F		+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008
Effect on Zero, % Rated Output/ °C		+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015
ELECTRICAL						
Rated Output, mV/V, Nominal		2	4	4	4	4
Excitation Voltage, VDC Maximum		20	20	20	20	20
Input Resistance, Ohms		350	350	350	350	350
Output Resistance, Ohms		350	350	350	350	350
Insulation Resistance, Megohm		5000	5000	5000	5000	5000
Bayonet Connector		PT02E-10-6P (MS3112E-10-6P)				
MECHANICAL						
Safe Overload Range, % Rated Capacity		150	150	150	150	150
Weight lb		1.1	3.1	5.1	12	33
Weight kg		0.5	1.4	2.3	5.4	15
Weight w/base lb		2.6	6.7	12.1	30.3	70
Weight w/base kg		1.2	3.0	5.5	13.7	32
Flexure Material		Aluminum	Steel	Steel	Steel	Steel

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DIMENSIONS

Model	SW11	SW11M	SW11	SW11M	SW21	SW21M	SW31	SW31M	SW41	SW41M
Capacity	300, 500, 2K, 5K lbf	1.5, 2.5, 5, 10, 25 kN	10K lbf	50 kN	25K, 50K lbf	100, 250kN	100K lbf	500 kN	200K lbf	1000 kN
Dimensions	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1.	See SW for dimensions add compatible Load Button		2.50	63.50	3.00	76.2	4.49	114	5.75	146.1
2.			R 2.53	R 64.30	R 2.84	R 72.1	R 3.51	R 89.1	4.61	117.1
3.			4.12	104.65	4.75	120.7	6.06	154	8.25	209.6
4.			1.38	35.00	1.75	44.5	2.50	63.5	3.25	82.6
5.			1.25	31.75	1.63	41.4	2.25	57.2	3.00	76.2
6.			1.29	32.8	1.56	39.6	2.58	65.5	3.16	80.3
7.			3.50	88.90	4.00	101.6	5.13	130.3	6.75	171.5
8.			22.5°	22.5°	45°	45°	15°	15°	15°	15°
9.			C'Bore for 1/4-28 8 Places	C'Bore for M6 8 Places	C'Bore for 5/16-24 4 Places	C'Bore for M8 4 Places	C'Bore for 3/8-24 12 Places	C'Bore for M10 12 Places	C'Bore for 5/8-18 12 Places	C'Bore for M16 12 Places
10.			R 4.00	R 101.6	R 6.00	R 152.4	R 8.00	R 203.2	R 12.00	304.8
11.			1.13	28.7	1.25	31.8	1.99	50.5	2.50	63.5
12.			0.03	.80	0.03	.80	0.03	.80	0.03	.80
13.			1.25	31.75	2.00	50.8	4.38	111.3	5.75	146.1
14.			5/8-18 .88 Deep	M12 x 1.25 22.4 Deep	1/2-20 1.00 Deep	M12 x 1.25 26 Deep	3/4 -16 1.50 Deep	M27 x 2 38 Deep	3/4 -16 1.50 Deep	M27 x 2 38 Deep



OPTIONS

Additional bridges
Output adjustment to standard
Compression overload protection
Integral cable
Custom connectors
Connector Protectors

ACCESSORIES

Mating connector
Loading fixtures
Interconnect cable
Shunt calibration resistor
Instrumentation