



Low hysteresis

Temperature compensated

Full-bridge foil strain gauges

Excellent linearity and repeatability

Suitable for idler or live roller sensing

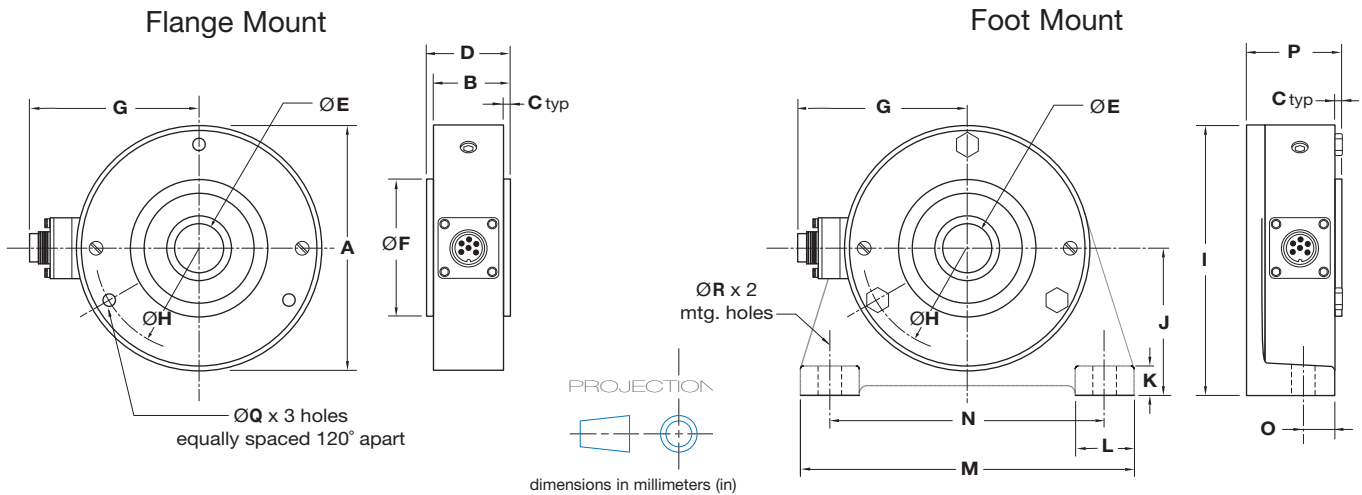
Overload capacity to 500% of rated load

Montalvo Load Cells

SW-Series Compact Load Cells

SW-Series Load Cells are suitable for idler or live roll applications and are available in three sizes and a variety of load ratings. They are full-bridge foil strain gauge load cells suitable for tissue to board tension sensing. SWs may be mounted directly to a machine frame or they may be foot mounted. Their compact design and through-shaft capability make them a good choice for custom applications.

Specifications



Model	A	B	C typ	D	ØE	ØF	G	ØH	I	J	K	L	M	N	O	P	ØQ	ØR
SW-17	105 g6 (4.13)	35 (1.38)	3 (.12)	38 (1.50)	17 (.67)	60 g6	77 (3.03)	90 (3.54)	123 (4.84)	70 (2.76)	12 (.47)	30 (1.18)	150 (5.91)	120 (4.72)	16 (.63)	48 (1.89)	7 (.28)	12 (.47)
SW-25	125 g6 (4.92)	44 (1.73)	4 (.16)	48 (1.89)	25 (.98)	70 g6	87 (3.42)	105 (4.13)	138 (5.43)	75 (2.95)	15 (.59)	30 (1.18)	170 (6.77)	140 (5.51)	20 (.79)	54 (2.13)	7 (.28)	12 (.47)
SW-35	175 g6 (6.89)	61 (2.40)	4 (.16)	65 (2.56)	35 (1.38)	100 g6	112 (4.41)	150 (5.91)	193 (7.60)	105 (4.13)	20 (.79)	40 (1.57)	230 (9.06)	190 (7.48)	25 (.98)	74 (2.91)	9 (.35)	14 (.55)

Electrical

Excitation 10 VDC or 10 VAC
 Output factory set to 1 mV/V
 Gauge Resistance 350 Ω
 Type full-bridge foil
 Limit 150% typ.
 Total error (Hysteresis, Repeatability, Linearity) < ± 0.5% of rated

Loading

Rated SW-17 200 (40), 500 (100) N (lb)
 SW-25 500 (100), 750 (150) N (lb)
 SW-35 1500 (300) N (lb)
 Overload < 500% of rated

Connector

Type DIN 45322 (6 pin)

Mechanical

Orientation of sensing in line with connector
 Weight -Flange Mount
 SW-17 ~ 2.0 kg (4.4 lb)
 SW-25 ~ 3.2 kg (7.1 lb)
 SW-35 ~ 9.0 kg (26 lb)
 Size (WxDxH)- Flange Mount
 SW-17 130 x 38 x 105 (5.12 x 1.50 x 4.13)
 SW-25 150 x 48 x 125 (5.91 x 1.89 x 4.92)
 SW-35 200 x 65 x 175 (7.87 x 2.56 x 6.89)
 Dimensions mm (inches)