

X Series

Narrow Web and Ribbon Width Cantilever Load Cells



Montalvo X Series Narrow Web and Ribbon Width Cantilever Load Cells

The X Series cantilever load cell from Montalvo is designed for a customized fit into narrow web and ribbon, wire or single strand applications. Custom roller options, multiple load ratings, two mounting styles and Montalvo's renown Extra Sensitive load cell technology make the X a perfect choice for the narrowest of webs.

Features

- Customer specified roller or pulley Diameter, profile, material and finish
- ► Multiple load ratings
- ► Body only option

To fit customer supplied rollers and pulleys

► Two mounting styles

Includes thru-frame single bolt or flange mount configuration

► Two body sizes

Offers a wide range of load ratings

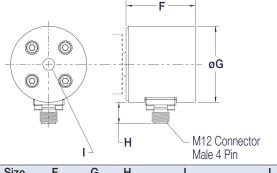


X-Series

Narrow Web and Ribbon Width Cantilever Load Cells



Standard Mount XBS, XNS and XRS



Size	F	G	Н	I	J
0	1.97 (50)	2.17 (55)	0.61 (15.5)	M10x1.5x10deep	M12x1.75x10deep
2	2.89 (73.50)	2.85 (72.50)	0.67 (17)	M16x2.0x20deep	M16x2.0x16deep

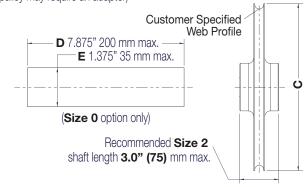
X Series
Body
Standard Mount

X Series
Narrow Web Roller
Standard Mount
(available in Size 0 only)

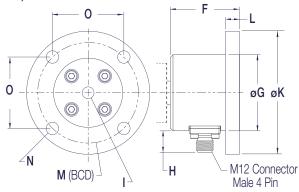
X Series Ribbon Wheel Standard Mount



Mounting hole for customer supplied roller or wheel (roller or pulley may require an adapter)



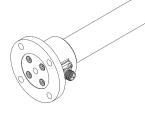
Flange Mount XBF, XNF and XRF



X Series
Body
Flange Mount



X Series Narrow Web Roller Flange Mount (available in Size 0 only)



X Series Ribbon Wheel Flange Mount



Mounting hole for customer supplied roller or wheel (roller or pulley may require an adapter)

Size	F	G	Н	I	J	K	L	М	N	0
0	1.97 (50)	2.17 (55)	0.61 (15.5)	M10x1.5x10deep	M12x1.75x10deep	3.50 (89)	0.39 (10)	2.874 (73)	0.35 (9)	2.03 (51.6)
2	2.89 (73.50)	2.85 (72.50)	0.67 (17)	M16x2.0x20deep	M16x2.0x16deep	2.85 (72.50)	0.63 (16)	3.78 (96)	0.531 (13.50)	2.673 (67.88)

Connector Position

Position is relative to LOAD ARROW, which is always 6 o'clock, as observed from end of load cell.

3 o'clock is **standard** 9 o'clock is **optiona**l

Load Arrow
Must point in direction
of force due to web tension
(load arrow always points to 6 o'clock)



LOAD**→**

Request a quote

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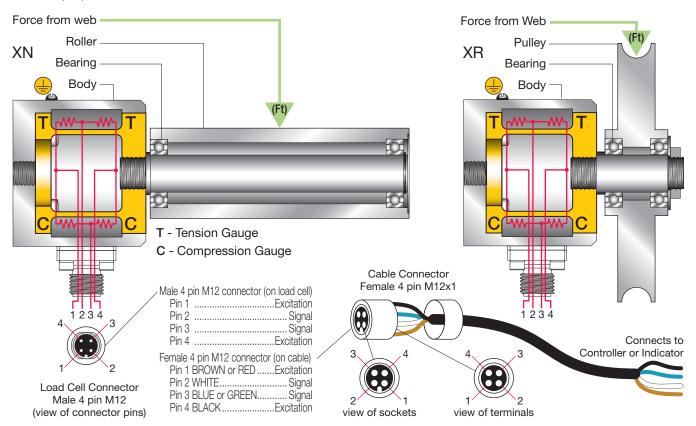
Use this form to specify a custom roller, pulley or a	•		orksheet for a quo				
BODY SIZE TYPE/MOUNT (see illustr				CONNECTOR POSITION			
0 2 XRS XRF 2	XNS* X	INF iilable in S	XBS XBF	3 o'clock 9 o'clock (standard) (optional)			
A, B, C, D or E as necessary	7100		nzo o orny				
Provide ROLLER/PULLEY SPECIFICATIONS				(LOAD + LOAD + L			
Dimensions (see sketch)	00!!	-11					
Material and finish (if other than standard - 3 I have roller/pulley. Need adapter only (see s				reference			
Provide WEB CHARACTERISTICS	1101011/1 11101	ado diri	10110101171101121101	10101011001			
Wrap angle							
Material			Sketch side view o	of roller. Include dimension A or B,			
Dimensions		dimensions of web and roller diameter. Indicate if					
Tension				y" is needed. Note any frame ag or wiring constraints.			
Line speed			mountil	g or willing constraints.			
← A →	-	A = Dist	tance from: <i>frame t</i>	o center line of web path of pulley			
▼ B →	-	B = Dis	tance from: frame t	to center line of web path of roller			
	-	C = ribl	bon wheel <i>diamete</i>	r <u>Size 0 - 6.5" (165 mm) max.</u>			
Pulley profile to							
XRS	D = narrow web roller <i>width</i> 7.875" (200mm) max.						
customer web	E = narrow web roller <i>diameter</i> 1.375" (35mm) max.						
specifications. Include details		L - Han	10W Web Toller clai	1.070 (comm) max.			
in sketch.							
NOTE: Size 2							
max. shaft							
D							
XNS* ØE							
*available in							
size 0 only							
XNF*							
Г 🚍							
Tapped mounting hole							
XBS // (Size 0 = 12 x 1.75 x 10 deep max)							
(Size 2 = 16 x 2.0 x 16 deep max)							
For adapter which allows mounting of customer							
XBF supplied roller/pulley.							
Provide sketch of adapter. Include dimension A or B.							

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How They Work

Montalvo X-Series use tension (T) and compression (C) strain gauges connected in a FULL bridge configuration. As the tension forces (Ft) deflects the beam assembly slightly, the gauge resistances change, producing an output signal which is proportional to web tension.



Specifications

Electrical Excitation	Connector Position Standard
**Beam depends on size of customer installed roller being used - consult Montalvo for proper sizing!	Temperature Compensated
207-856-2501 / 800-226-8710	Effect on Span
+86-21-52188010	
+45 75 57 27 11 +49 (0)511 760 691 41	