

MSI-Clamp On Load Cell

The MSI Clamp On Load Cell clamps to a wire rope at the dead end of a crane system, mainly used for overload detection. It is available in two sizes to accommodate cable sizes from 3/8" to 3/4".

- PN 179080 – MSI-Clamp On Load Cell for cable range of 3/8" to 1/2"
- PN 179082 – MSI-Clamp On Load Cell for cable range of 9/16" to 3/4"

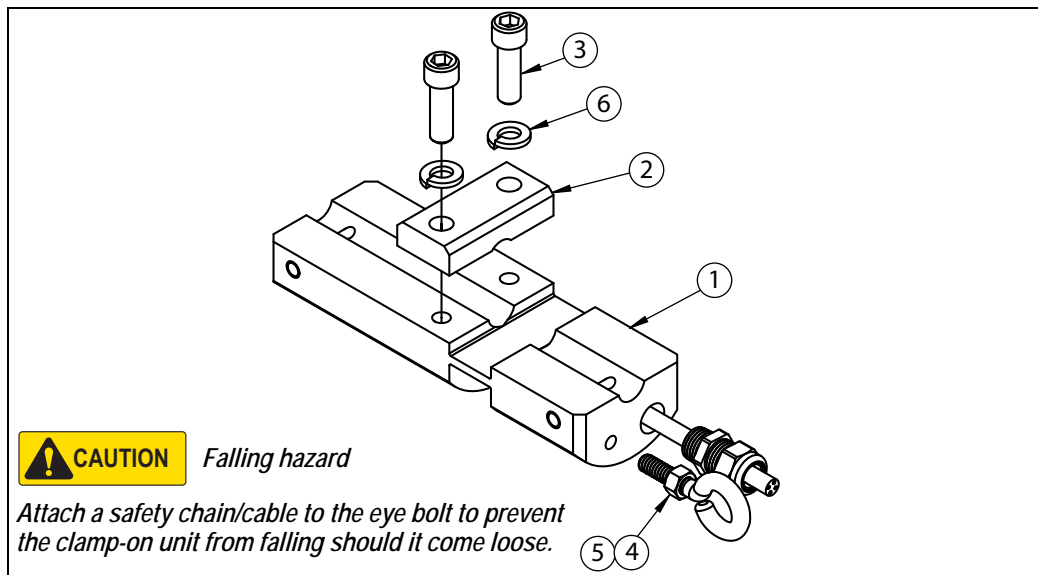


Figure 1. Load Cell Assembly, MSI-Clamp On (PN 179080 shown)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	178332 08	Load Cell Body Clamp-On 3/8 x 1/2" (PN 179080)	1
	178363 08	Load Cell Body Clamp-On 9/16 x 3/4" (PN 179082)	
2	178333 08	Clamp Block 3/8 x 1/2" (PN 179080)	1
	178364 08	Clamp Block, 9/16 x 3/4" (PN 179082)	
3	145995 08	Screw SH 5/16-18 x 1" SS	2
4	143029 08	Eye Bolt 0.25-20 x 2" Wire Formed with Locking Nut	1
5	146347 08	Adhesive, 242 Blue Locktite®	AR
6	145540 08	Washer Split Lock 5/16 SS	2

Table 1. Load Cell Assembly, MSI-Clamp On Parts List

Connect to Indicator

1. Connect load cell cable to an indicator or transmitter using wiring configuration in Table 2. See indicator manual for instructions.

Wire Color	Function
Red	+ Excitation
Black	- Excitation
Green	+ Signal
White	- Signal

Table 2. Wiring Configuration

2. Calibrate the MSI-Clamp On load cell using the connected indicator. See indicator manual for calibration instructions.



Manuals can be viewed or downloaded from the Rice Lake Weighing Systems website at www.ricelake.com/manuals

Assemble to Cable

1. Loosen the screws to remove the clamp block.
2. Place the clamp body on the wire rope, ensure the cable is snug in the groove of the clamp body.
3. Place the clamp block on top of the cable, aligning it with the screw holes in the clamp.
4. Secure with screws, using Locktite, and torque to 20 ft/lb. The cable will be slightly depressed under the clamp block.

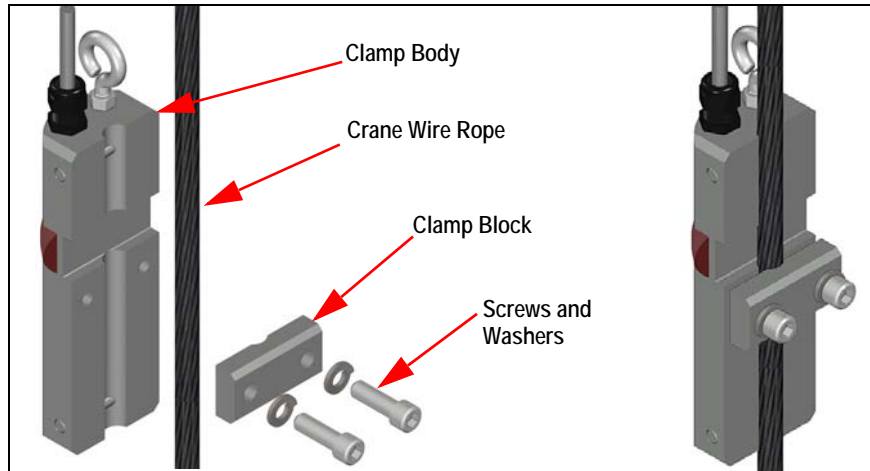


Figure 2. Clamp to Cable

Specifications

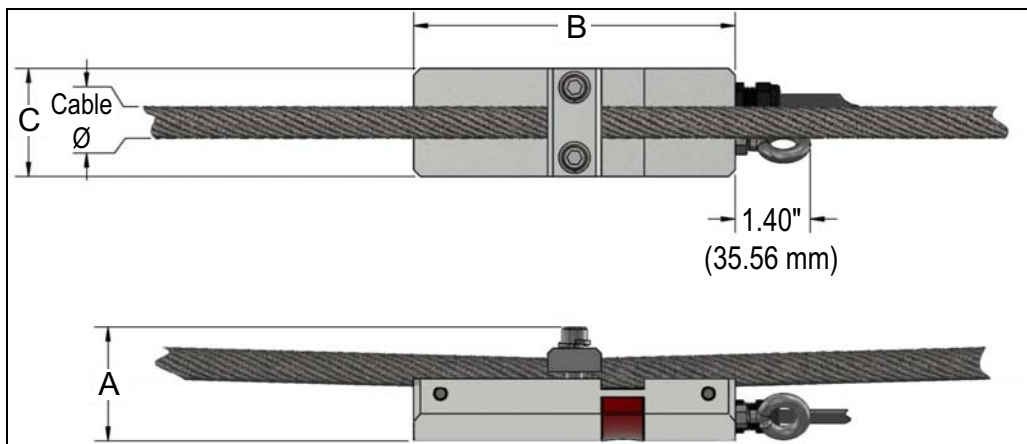


Figure 3. Dimensions

Cable Ø Range (in)	Assembly PN	(A)	(B)	(C)
3/8-1/2" (9.53-12.7 mm)	179080	Cable Ø + 1.70" (43.18 mm)	6.00" (152.4 mm)	2.00" (50.8 mm)
9/16-3/4" (14.92-19.05 mm)	179082	Cable Ø + 1.67" (42.42 mm)	6.00" (152.4 mm)	2.00" (50.8 mm)

Table 3. Dimensions



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