

ADVANTAGE LITE SERIES: HI LPWR

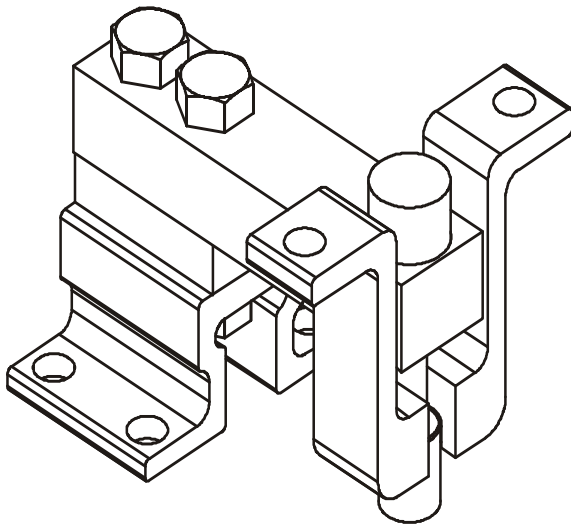
INSTALLATION AND ASSEMBLY INSTRUCTIONS

Model Numbers

CAPACITY		Load Point Model Number	Load Sensor Model Number
LB	KG		
440	200	HI LPWR440-33C	HI SB02-440
1100	500	HI LPWR1.1K-33C	HI SB02-1.1K
2200	1000	HI LPWR2.2K-33C	HI SB02-2.2K
4400	2000	HI LPWR4.4K-33C	HI SB02-4.4K

Conversion kits are available for the wire rope to rubber element mounting system. An upgrade kit is available to convert these load cells to the current rubber element design. You must upgrade all mounts on the vessel. (Note: If the mount assembly is okay, load sensors are still available using the model number on the side of the load sensor.)

Note: There is a change in height.

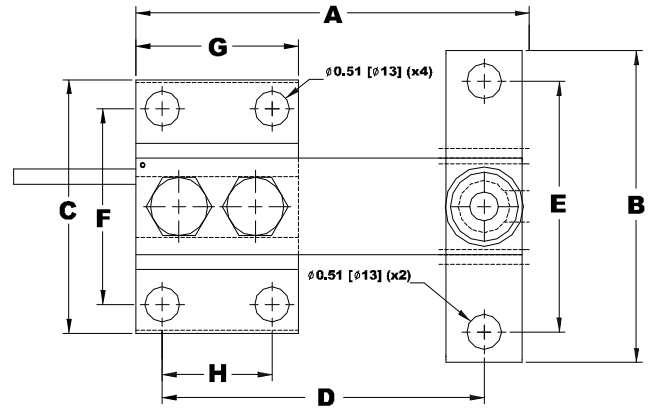


Assembly before update (obsolete)

Basic Engineering Principle for Positioning Load Point Assemblies

Load Point Assemblies should be positioned such that the load (weight) is distributed as evenly as possible between each load point assembly in the scale.

Physical Dimensions



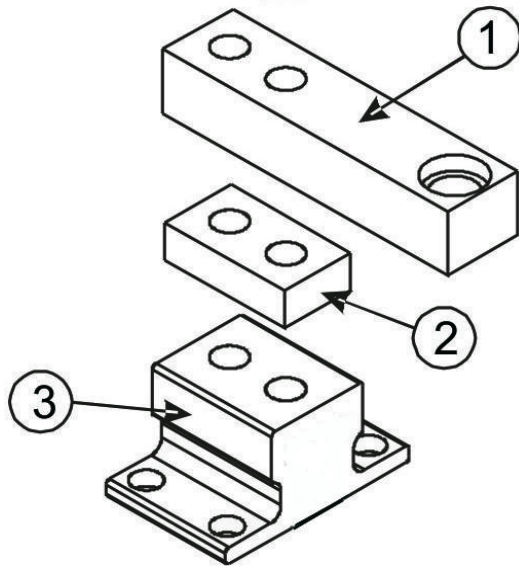
MODEL #	A	B	C
HI LPWR440-33C	5.06 (128.6)	4.02 (102.0)	3.27 (83.0)
HI LPWR1.1K-33C	5.06 (128.6)	4.02 (102.0)	3.27 (83.0)
HI LPWR2.2K-33C	5.06 (128.6)	4.02 (102.0)	3.27 (83.0)
HI LPWR4.4K-33C	5.15 (130.9)	4.02 (102.0)	3.27 (83.0)

MODEL #	D	E	F
HI LPWR440-33C	4.22 (107.1)	3.23 (82.0)	2.52 (64.0)
HI LPWR1.1K-33C	4.22 (107.1)	3.23 (82.0)	2.52 (64.0)
HI LPWR2.2K-33C	4.22 (107.1)	3.23 (82.0)	2.52 (64.0)
HI LPWR4.4K-33C	4.22 (107.1)	3.23 (82.0)	2.52 (64.0)

MODEL #	G	H	Height*
HI LPWR440-33C	2.12 (53.9)	1.44 (36.5)	2.15 (54.7)
HI LPWR1.1K-33C	2.12 (53.9)	1.44 (36.5)	2.28 (57.9)
HI LPWR2.2K-33C	2.12 (53.9)	1.44 (36.5)	2.40 (61.0)
HI LPWR4.4K-33C	2.12 (53.9)	1.44 (36.5)	3.25 (82.6)

* Measured from the bottom of the base to the top/rear of the load sensor, behind the load sensor bolts.

ISO Exploded View



Part Numbers

1. Load Sensor - See Front Page
2. Spacer (Used on HI LPWR4.4K) - Prt. #5504-0009-01
3. Base - Prt. # 5504-0001-01
4. Conversion kits (to current rubber mounting system):
Kit number 0555-0035-01 for 440/1100 capacities
0555-0035-02 for 2200lb capacities
0555-0035-03 for 4400lb capacities.

Contact the Hardy Service Center for current price and availability. They must be replaced as a set.
5. Load Sensor Hex Bolts
Torque to 90 ft-lb (125Nm)

Recommended Fasteners and Torque Specifications - Use when attaching the load point assembly with fasteners to a vessel or support base.

Base plate bolt torque specification

- Fasteners - 3/8 - 16 with washer or 7/16 - 14 without washer, or M10 with washer. 3/8 bolts allow for more adjustments.
- Torque - HI LPWR440
Minimum - 15 ft-lb (20 Nm)
Maximum - 35 ft-lb (45 Nm)
- Torque - HI LPWR1.1K
Minimum - 15 ft-lb (20 Nm)
Maximum - 35 ft-lb (45 Nm)
- Torque - HI LPWR2.2K
Minimum - 25 ft-lb (35 Nm)
Maximum - 35 ft-lb (45 Nm)
- Torque - HI LPWR4.4K - 90 ft-lb (125 Nm)

Electrical Termination Cable Color Codes

The cable is 6 conductor, shielded (floating) and 20 feet in length.

EXC+	Red
EXC -	Black
SHIELD	Yellow
C2+	Gray
C2-	Violet
SIG +	Green
SIG -	White

Specifications

- Load Cell Material - 17-4 PH Stainless Steel
- Sealing - Potted
- Mount Material - Stainless Steel
- Capacities - 1.1k, 2.2k, 4.4k
- C2 Second Generation Calibration
- Matched mV/V/ohm - Yes
- Rate Output mV/V - 2 ± 0.002
- Hysteresis - $< \pm 0.025\%$
- Non-Linearity - $< \pm 0.025\%$
- Temp. Effect on Output% of Output /C - $< \pm 0.002$
- Temp. Effect on Zero Balance% of R.O/C - $< \pm 0.002$
- Zero Balance - $< \pm 1.0\%$
- Comp Temp C -10 to +40
- Operating Temp -40 to +80
- Safe Load -% of Rated Load - 150
- Ultimate Load -% of Rated Load - 150
- Input Resistance - 1050 to 1200 Ohms ± 50
- Output Resistance - $1001 \pm 1.0\%$
- Washdown - IP67



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