

## WEIGHING SOLUTIONS FROM MS

## MSI Clevis Load Pin Sensors

**Integrated Solutions for Overhead Weighing and Process Control** 

Measurement Systems International is the renowned leader and foremost designer and manufacturer of industrial crane scales and overhead weighing solutions. In addition to a comprehensive crane scale product line for below the hook weighing solutions, MSI offers a broad cache of integrated designs where below the hook installations are prohibited due to lack of headroom or other application constraints.

A key component for MSI's integrated overhead weighing solutions is the Clevis Load Pin Sensor. Typically, designed and manufactured specific to each integrated solution, the MSI load pin is strictly industrial grade. Each load pin design is precision machined from 17-4 stainless steel

for safety, strength and corrosion resistance. Each strain gage location is precisely calculated and correctly placed in the optimum concentrated stress area of each installation. This MSI applied engineering process ensures the most efficient and accurate performance for each specific installation.

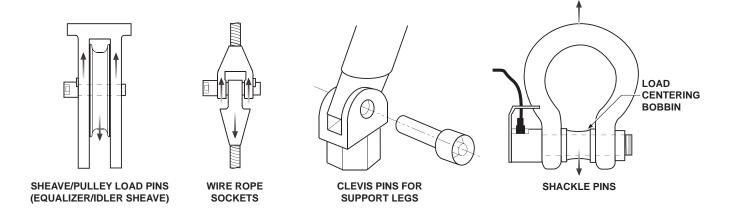
MSI load pin designs apply only internally mounted strain gages for complete protection from the outside environment. To ensure the highest level of accuracy, performance and quality, each load pin is internally balanced and temperature compensated.

The MSI load pin is a key system component toward providing the highest quality

integrated overhead weighing solutions. Each pin is specifically designed to replace existing sheave or shackle pins and pins located in a Wire Rope dead-end.

To complete the integrated solution, MSI provides a comprehensive product line of instrumentation for output signal conditioning, load indicating and wireless transmission of data for integration with existing plant process control equipment.

To learn more about MSI integrated solutions, please contact an MSI application specialist at 1-800-874-4320 and/or visit our website at www.msiscales.com



## Standard Specifications\*

Overload

200% without zero shift

500% without failure (minimum)

Bridge

Full bridge 350 Ohm (nominal)

\*other bridge options

Excitation

12 V AC or DC (Maximum)

Output Signal

1 - 2-mv/V (Nominal)\*\*

Non-Repeatability

 $\pm$  0.15% FS (Nominal)

Non-Linearity

 $\pm$  0.50% FS (Nominal)

Hysteresis

± 0.50% FS (Nominal)

Operating Temp Range

-40 to +150 degrees Fahrenheit

Temp Effects

0.005% FS/F (on Zero) (nominal)

0.008% load/ F (on Output) (nominal)

Zero Balance

± 2% FS (Nominal)

Material

17-4 Stainless Steel

**Electrical Connection** 

6-Pin receptacle or built-in cable

Receptacle

PTIH-10-6P

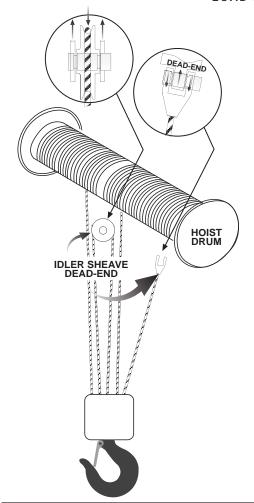
Cabl

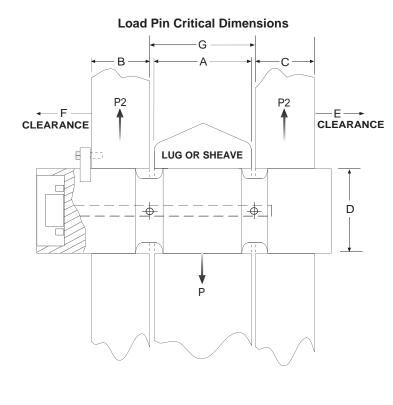
#20 (26X34) AWG, rubber insulation, shielded, rubber jacket, 4 conductor (Standard Cable)

- \* Custom Load Pin design performance and specification may vary with design requirements.
- \*\* Exact output provided with calibration data.

  In place calibration check is recommended.

## LOAD PIN QUESTIONNAIRE





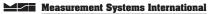
Load Pin Data	
A=	in/mm in/mm in/mm
G= Load Pin Capacity: Hoist/Crane: Capacity:	lb/kg
Reeving:	

Cable Interface Options		
End-Mounted Cable		
End-Mounted Connector		
Side Mounted Cable		
Side/Bottom Mount Connecto	or San	
Recessed Connector		

C€ <u>USA</u>

Specifications subject to change without notice.
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"We weigh quality hirst"



14240 Interurban Avenue South, STE.200 Seattle, Washington 98168-4661 U.S.A. Phone: 206-433-0199 • Fax: 206-244-8470 Web: www.msiscales.com • Email: info@msiscales.com