Questionnaires

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QUESTIONNAIRES

System Questionnaire

System/Application Description _____

Goals for Weighing System_____

Scale Type_____

Scale/System Capacity _____ ☐ lb ☐ kg ☐ Ton ☐ Metric Ton ☐ Other

# of Load Cells _____

Required System Accuracy _____ % ☐ of Capacity ☐ of Applied Load

Legal for Trade?   ☐ Yes ☐ No

Transmitter Power (at Load Cells)   ☐ AC ☐ DC _____ Voltage ☐ Battery

Receiver Power   ☐ AC ☐ DC _____ Voltage ☐ Battery

Check any Desired Output Options (If Applicable):

mV output   ☐ Yes ☐ No

Analog output   ☐ Yes ☐ No

Relays   ☐ Yes ☐ No

Do you require a serial cable?   ☐ Yes   ☐ 9pin   ☐ 25pin   ☐ No

Remote Control Required?   ☐ Yes ☐ No

Remote Display Required?   ☐ Yes ☐ No

If Remote Display is not Required:

Are Zero, Tare, On/Off Capabilities Required?   ☐ Yes   ☐ No

If Remote Display is Required:

Are Zero, Tare, On/Off Capabilities Required from the Remote Display? ☐ Yes   ☐ No

Does the Remote Display need to be Handheld or Mounted?   ☐ Handheld   ☐ Mounted

Is the Remote Display Wireless or Hardwired?   ☐ Wireless   ☐ Hardwired

Note for SendIt Applications:

Every SendIt needs to be calibrated using a laptop/pc with a serial port (or a USB adapter). The calibration of the SendIt pair must be done during the installation.

QUESTIONNAIRES

RF

Transmission Distance _____ ☐ ft   ☐ m

Line of Sight   ☐ Yes   ☐ No

Obstructions (list any) _____

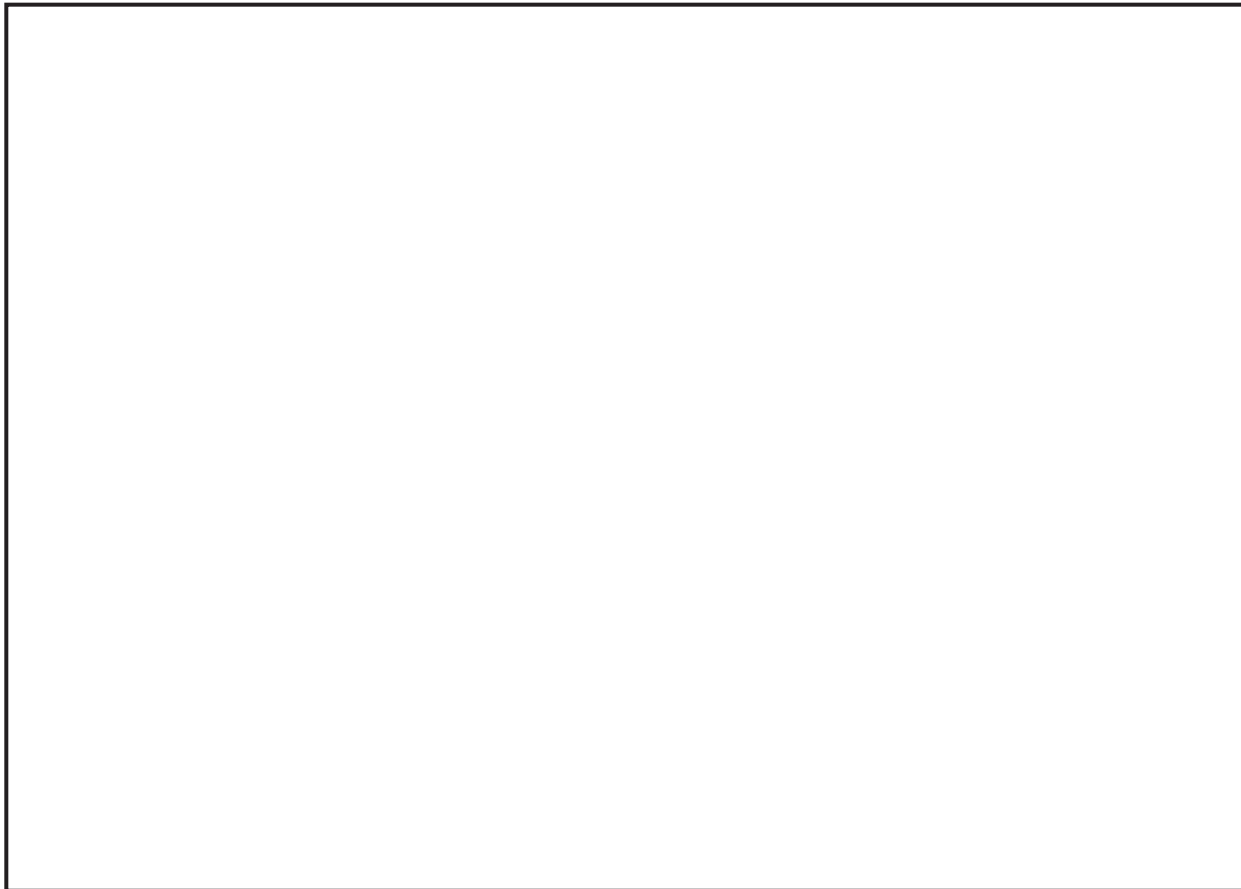Potential Sources of RF Interference _____

Other RF Systems Present   ☐ Yes _____ ☐ No

Indoor ☐   Outdoor ☐

Sketch of RF Field

This sketch will be used by our technicians to help find the optimal
antenna types and locations for this application.

- Include all transmitters and receivers that are part of this weighing system
- Include any other transmitters or receivers operating at 2.4 GHz
- Include any RF barriers, such as concrete walls, large steel equipment, cages
- Include sources of interference, such as high-power electrical motors and generators
- Include dimensions so we can understand the range and antenna gain requirements

QUESTIONNAIRES

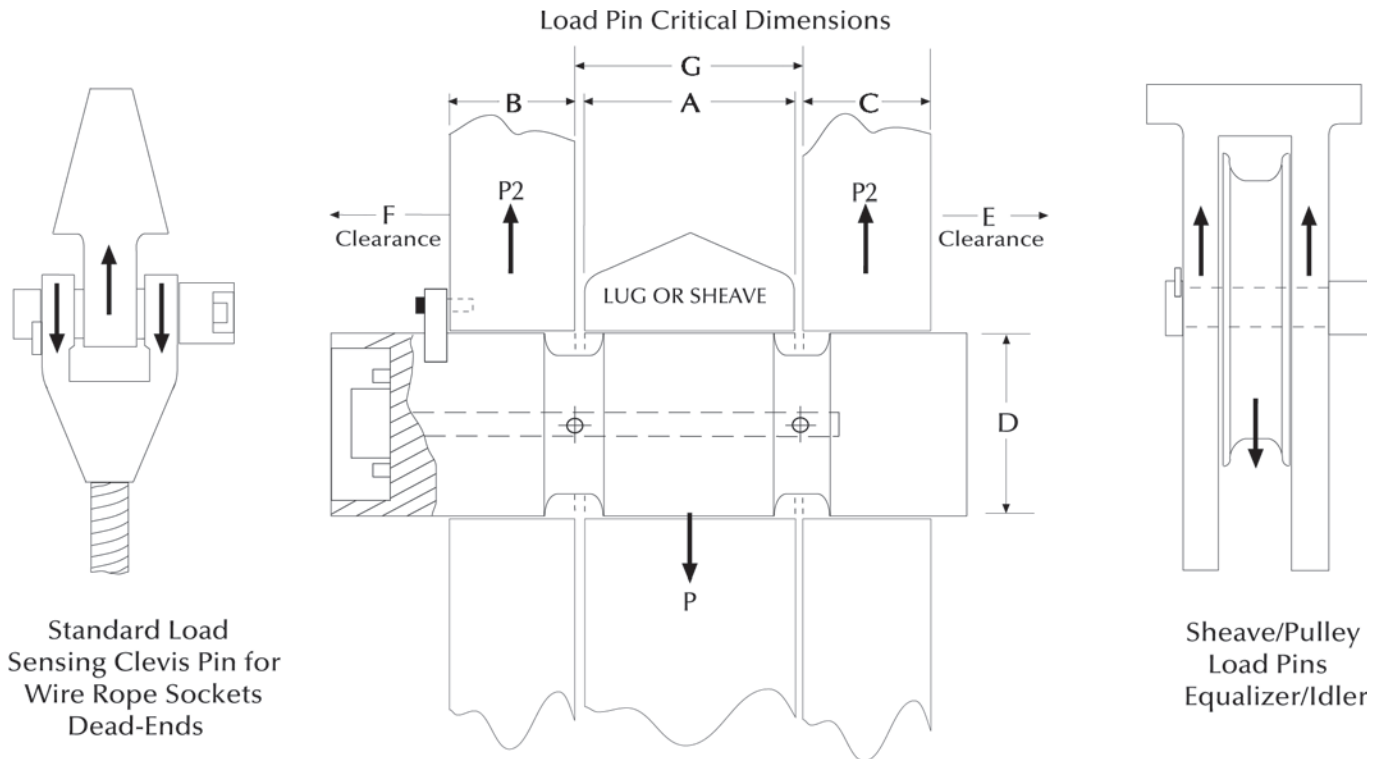Rev. 4 10/2021

Hook Questionnaire

Dimensions from crane's existing hook

Hook Saddle Profile
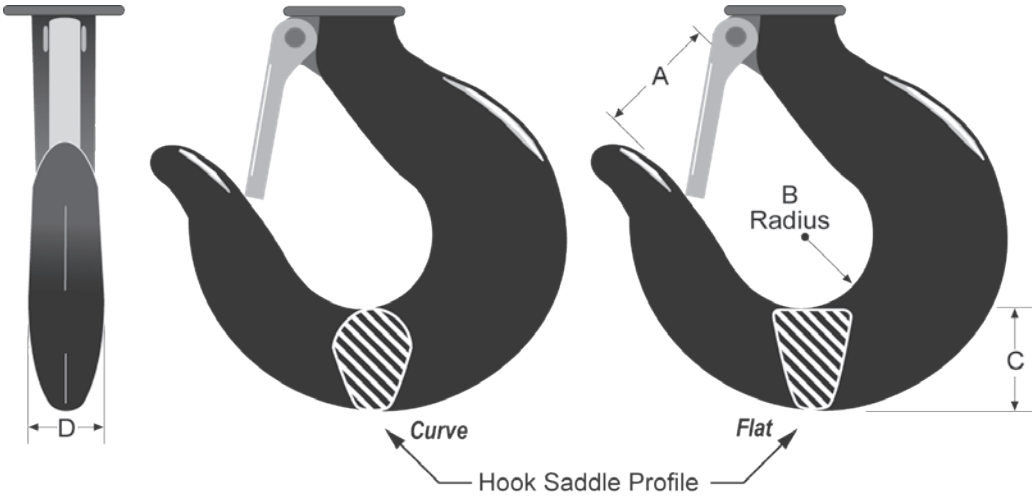
Required Dimensions

A= _____in/mm

B= _____in/mm

C= _____in/mm

D= _____in/mm

Profile: ❑Curve ❑Flat

Hook Capacity _____

QUESTIONNAIRES

Load Pin Critical Dimensions

Standard Load
Sensing Clevis Pin for
Wire Rope Sockets
Dead-Ends

LUG OR SHEAVE

Sheave/Pulley
Load Pins
Equalizer/Idler

Load Pin Data

A=Width _____ Inch
B=Width _____ Inch
C=Width _____ Inch
D=Pin Diameter_____ Inch
E=Clearance _____ Inch
F=Clearance _____ Inch
G=Width _____ Inch
Lube Port ❑No ❑Yes _____ # of exits
Hoist Capacity _____ Tons
Parts of Wire Rope _____
Sensor Capacity_____ Tons
Factor of Safety ❑3:1 ❑5:1 ❑7:1 ❑10:1
Application _____
Accuracy Requirement _____
Temperature Requirement _____
Required Output _____
Material Testing Requirement _____
 Load Vector Orientation/Alignment ❑← ❑→ ❑↓ ❑↑
Name _____
Company_____
Phone_____

Note: Minimum clearance between
"A" and "G" = 0.0625 inch.

Cable Connections

End-Mounted
Cable

End-Mounted
Connector (standard)

Side-Mounted
Cable

Side-Mounted
Connector

Recessed
Connector

Sensor's Cable Length_____ Feet

Comments _____

_____

QUESTIONNAIRES
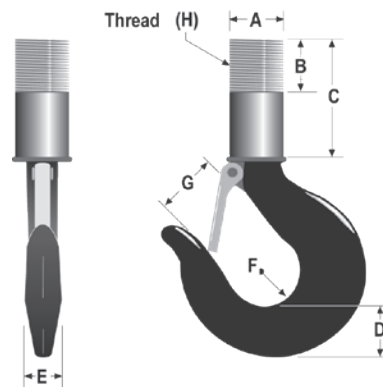
Low Headroom Weighing Consideration

Concern: Customer wants MSI crane scale accuracy, but has vertical headroom concerns
Solution: Consider an in-block adapter
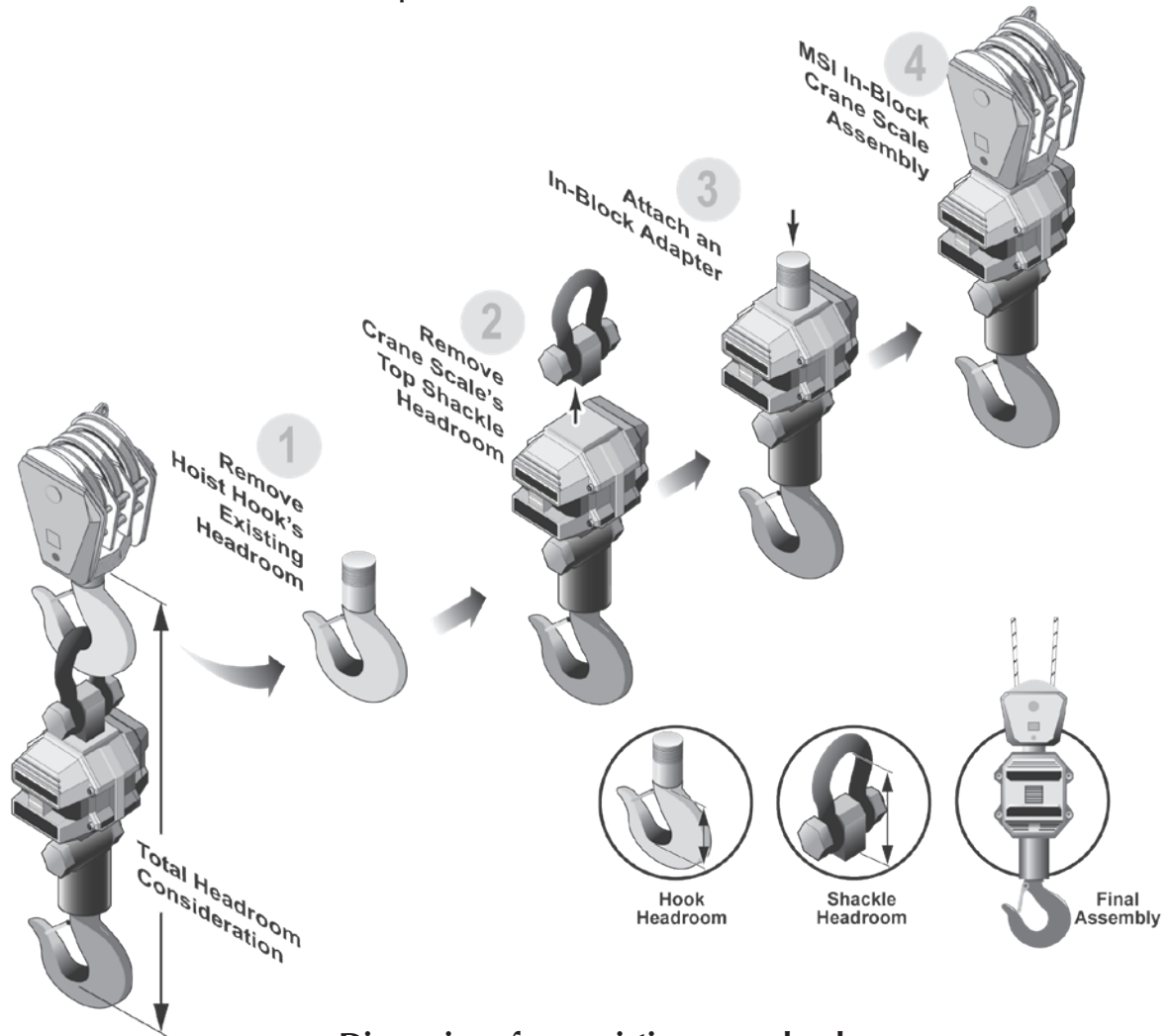
Dimensions from existing crane hook

Required Dimensions

A= _____ in/mm
B=_____ in/mm
C= _____ in/mm
D= _____ in/mm
E=_____ in/mm
F=_____ in/mm
G= _____ in/mm
H= _____UNC
Hook Capacity_____

QUESTIONNAIRES

Weighing System Questionnaire

Company _____

Name _____ Date _____

Phone _____ Fax _____ Email _____

Project Name _____

System Objective _____

System Description _____

_____

APPLICATION PARAMETERS

Basic System Design:
❑ BTH* ❑ Equalizer Sheave ❑ Dead-End ❑ C-Hook
❑ Spreader Bar ❑ Coil Grab ❑ Coil Lifter ❑ Rotating Crane Hook/Grab

System Capacity: _____ ❑ lb ❑ kg ❑ tons ❑ metric tons ❑ Other _____

System Accuracy: _____ % ❑ Applied Load ❑ Rated Capacity

Legal for Trade ❑ Yes ❑ No

Crane Type:
❑ Bridge ❑ Mobile Fixed Boom ❑ Mobile Ext. Boom Gantry
❑ Container ❑ Lattice Boom ❑ Jib ❑ Other _____

Reeving: _____ Parts of Wire-Rope _____ At Bottom Load Block _____ At Load Sensor
❑ N/A

Power Supply: ❑ DC ❑ AC Voltage _____

Number of Sensors: ❑ 1 ❑ 2 ❑ 3 ❑ 4 ❑ Other _____

Load Sensor Design:
❑ Tension Link ❑ Clevis/Sheave Load Pin ❑ Single End Shear
❑ Double Ended Shear ❑ Compression

Load Sensor Capacity: _____ ❑ lb ❑ kg ❑ tons ❑ metric tons ❑ Other _____

Load Sensor Location:
❑ BTH* ❑ Equalizer/Idler Sheave ❑ Dead End
❑ Other_____

Environment: ❑ Indoor ❑ Outdoor ❑ Other _____

Other Requirements: _____

INSTRUMENTATION

Dyna-Clamp Questionnaire

Industry Dyna-Clamp will be used in: _____

Is protective case required: ☐ YES   ☐ NO

Wire Rope Pre-Calibration:

1. Rope/Cable Diameter: _____ Inch / mm Strand Arrangement: _____

    Rope/Cable Material _____

    Minimum Breaking Load (MBL) if known: _____

    Working Load Limit (WLL) if known: _____

2. Rope/Cable Diameter: _____ Inch / mm Strand Arrangement: _____

    Rope/Cable Material _____

    Minimum Breaking Load (MBL) if known: _____

    Working Load Limit (WLL) if known: _____

3. Rope/Cable Diameter: _____ Inch / mm Strand Arrangement: _____

    Rope/Cable Material _____

    Minimum Breaking Load (MBL) if known: _____

    Working Load Limit (WLL) if known: _____

4. Rope/Cable Diameter: _____ Inch / mm Strand Arrangement: _____

    Rope/Cable Material _____

    Minimum Breaking Load (MBL) if known: _____

    Working Load Limit (WLL) if known: _____

5. Rope/Cable Diameter: _____ Inch / mm Strand Arrangement: _____

    Rope/Cable Material _____

    Minimum Breaking Load (MBL) if known: _____

    Working Load Limit (WLL) if known: _____

6. Rope/Cable Diameter: _____ Inch / mm Strand Arrangement: _____

    Rope/Cable Material _____

    Minimum Breaking Load (MBL) if known: _____

    Working Load Limit (WLL) if known: _____

7. Rope/Cable Diameter: _____ Inch / mm Strand Arrangement: _____

    Rope/Cable Material _____

    Minimum Breaking Load (MBL) if known: _____

    Working Load Limit (WLL) if known: _____

8. Rope/Cable Diameter: _____ Inch / mm Strand Arrangement: _____

    Rope/Cable Material _____

    Minimum Breaking Load (MBL) if known: _____

    Working Load Limit (WLL) if known: _____

If working load limit is not known, we will calculate it as a maximum of 20% of the MBL.

QUESTIONNAIRES

IN ORDER TO CUSTOMIZE A WI-FI MODULE, THE FOLLOWING INFORMATION IS REQUIRED:

Product: _____   Electronics Serial Number: _____

Network Topology: ❑ Server   ❑ Client

Server (Soft AP) - User's laptop or tablet is connecting directly to the scale. Only one module may be connected at a time in this mode.

Client - The scale connects to an existing router. This allows a laptop or tablet to connect to multiple scales at once.

Server Mode

- SSID: _____
  - The name for the network that the laptop/tablet is connecting to.
- Security Mode: ❑ Open   ❑ WPA2
  - Open - Allow anyone to connect to the scale
  - WPA2 - Require a password to connect to the scale
- Password: _____
  - Only necessary if security mode is set to WPA2.
- DHCP: ❑ On   ❑ Off
  - On - Assign a dynamic IP to the scale. The laptop/tablet connecting to the scale may have a dynamic IP **(RECOMMENDED).**
  - Off - Assign a static IP to the scale. The laptop/tablet connecting to the scale must also have a static IP.
    - IP Address-Static IP of the scale: _____
    - Net Mask/Gateway to assign to the scale: _____
  - Port - Port used to connect to the scale (default 2000): _____

Client Mode

- SSID - The SSID of the router the scale will connect to: _____
- Security Mode - the security mode of the router: ❑ Open   ❑ WPA2
  - Password - If the security mode of the router is WPA2, this is the password used to connect to the router _____
- DHCP: ❑ On   ❑ Off
  - On - Allow the router to assign a dynamic IP to the scale **(RECOMMENDED)**
  - Off - Assign a static IP to the scale. This IP must be added to the static IP list in the router.
    - IP Address - Static IP of the scale: _____
    - Net Mask/Gateway to assign to the scale: _____
- Port: _____
  - Port used to connect to the scale. Must be accessible from the router.

Form #0199 New 09/2023

QUESTIONNAIRES