

# Customized Light Fixture System Load Shackles

Industry: Entertainment

## Summary

### Customer Challenge

Complex lighting fixtures in hotels or artistic installations need to be properly installed and monitored for safety reasons. The weight of heavy lighting fixtures can affect the structural integrity it is mounted on, causing it to weaken and possible cause accidents or other damage. A weight monitoring system is needed for these kinds of applications.

### Interface Solution

Interface suggests installing multiple WTSSHK-B-JR Wireless Crosby™ Bow Load Shackles to rig system on the ceiling, with integrated Wireless Strain Bridge Transmitter Modules. The load shackles will wirelessly transmit the light fixtures weight to the WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure connected to the customer's PC. Results of all load cell points or individual points can be wirelessly transmitted and displayed through a customer computer with Log 100 software, or using the WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters.

### Results

Interface's wireless load shackles successfully monitored the multiple loads of each of the light fixtures at once or individually. This created a safe and secure environment.

## Materials

- WTSSHK-B-JR Wireless Crosby™ Bow Load Shackles with integrated Wireless Strain Bridge Transmitter Modules
- WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure
- Supplied Log100 software
- WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters
- Customer PC or Laptop

## How It Works

1. Multiple WTSSHK-B-JR Wireless Crosby™ Bow Load Shackles are installed on the lighting system.
2. Heavy lighting fixtures are attached to the shackles, which collect the load data.
3. The shackles collect the force data, where it is wirelessly transmitted and displayed on the customer's computer with Log 100 software, or using the WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters. The customer is able to monitor all load cell locations at once or individually.

