# wireless loadshackle



Available from stock in capacities 3.25t to 120t and available up to 1,550t, the WLS is manufactured from Crosby's industry leading 2130 Carbon and 2140 Alloy Bolt Type Anchor Shackles (3.25te – 120te) and the GN H10 Alloy Bolt Type Anchor Shackle (200te on up).

Straightpoint's Wireless Loadshackle provides the perfect solution to limited headroom applications. Each Wireless Loadshackle is proof tested, then equipped with a hard anodized aluminum electronics enclosure. Contained within this aluminum enclosure is a new internal chassis providing IP67/NEMA6 environmental protection even with the battery cover plate missing.
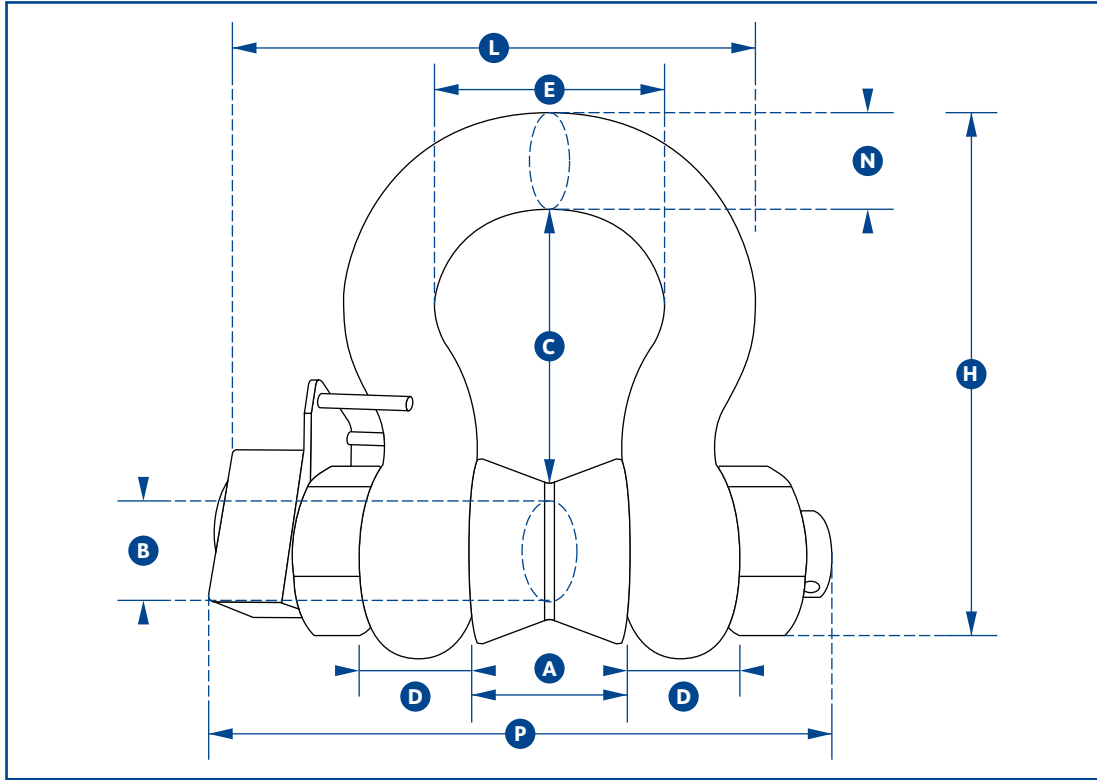
Featuring industry leading wireless technology and 2,300 foot range, the Wireless Loadshackle is supplied with an update rate of 3Hz and can be easily configured to run at industry leading speeds of up to 200Hz. Data is transmitted wirelessly utilizing the latest in IEEE 802.15.4 (2.4 GHz) technology providing safe, high integrity, error free transmission of both static weight and dynamic load to a wireless handheld controller or wireless Windows® PC data logging software package. Our wireless data logging software allows for simultaneous control, display and real time data logging of up to 100 Straightpoint telemetry load cells. Logged data is captured in a .csv file format and opens in MS Excel providing easy visual presentation, analysis of logged data, and simple test certificate generation.

Our Wireless Loadshackle utilizes easily sourced AA alkaline batteries and features advanced circuitry designed to protect the unit from damage associated with incorrectly installed batteries. This advanced circuitry extends battery life and the use of easily sourced alkaline batteries eliminates issues associated with rechargeable battery pack charging, failure and replacement. Our huge range of tooling allows us to calibrate in shackle for extra accuracy unlike many other load cell manufacturers. A full array of wireless accessories are also available including signal boosters, LED wireless scoreboards and base stations with analogue (4-20mA, 0-10v, 0-5v) or digital (RS232/485, Modbus RTU, and ASCII serial communications protocol) outputs. There is no better choice than Straightpoint's Wireless Loadshackle for limited headroom applications.

## Features and benefits:

- Proprietary 2.4 GHz wireless
- Error free data transmission
- Environmentally sealed
- Internal antennae
- Remote on/off
- Industry leading 2,300 foot wireless range

- Unrivaled resolution
- Unmatched battery life
- Low headroom
- Lightweight
- Each WLS is supplied with a load-centering bobbin
- Design validated by F.E.A.

**wireless loadshackle**

| Part Number | WLS3.25TU | WLS6.5TU | WLS12TU | WLS25TU | WLS55TU | WLS85TU | WLS120TU | WLS200TU | WLS300TU | WLS400TU |
|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | 7150lb | 14300lb | 26400lb | 55000lb | 120000lb | 185000lb | 260000lb | 440000lb | 660000lb | 880000lb |
| Resolution | 10lb | 10lb | 20lb | 50lb | 100lb | 100lb | 200lb | 200lb | 1000lb | 1000lb |
| Units | lb | | | | | | | | | |
| Weight | 6.16lb | 7lb | 17.6lb | 40lb | 55lb | 99lb | 187lb | 560lb | 825lb | 1354lb |
| Safety Factor | 5:1 when used with load bobbin | | | | | | | | | |
| Battery Type | Load cell 4 x AA Alkaline | | | | | | | | | |
| Battery Life | Load cell 1200hrs continuous | | | | | | | | | |
| Operating Temp | -10°C to +50°C / 14°F to 122°F | | | | | | | | | |
| Accuracy | ±1 % of applied load | | | | | | | | | |
| Frequency | 2.4GHz | | | | | | | | | |
| System Range | 700 meters / 2300 feet | | | | | | | | | |
| Data Rate | 3 updates per second | | | | | | | | | |
| Protection | IP67 / NEMA 6 | | | | | | | | | |
| Dimension A | 1.06 | 1.44 | 2.03 | 2.87 | 3.25 | 4.13 | 5.00 | 7.09 | 8.07 | 9.06 |
| Dimension B | 0.75 | 1.00 | 1.38 | 2.01 | 2.24 | 2.76 | 3.25 | 4.92 | 5.91 | 6.89 |
| Dimension C | 2.38 | 3.31 | 4.69 | 7.01 | 7.76 | 10.51 | 12.99 | 13.15 | 15.67 | 17.32 |
| Dimension D | 0.63 | 0.88 | 1.25 | 1.75 | 2.01 | 2.62 | 2.99 | 4.72 | 5.12 | 6.50 |
| Dimension E | 1.69 | 2.28 | 3.25 | 5.00 | 6.46 | 7.24 | 7.87 | 11.42 | 12.01 | 12.80 |
| Dimension H | 4.17 | 5.83 | 8.27 | 12.32 | 13.70 | 17.83 | 21.50 | 31.89 | 37.40 | 43.31 |
| Dimension L | 5.20 | 6.22 | 7.72 | 11.06 | 12.05 | 14.49 | 16.06 | 22.83 | 24.21 | 27.76 |
| Dimension N | 0.69 | 0.97 | 1.38 | 2.24 | 2.40 | 3.11 | 3.62 | 4.72 | 5.12 | 6.50 |
| Dimension P | 5.83 | 7.09 | 8.58 | 11.54 | 12.48 | 15.51 | 17.36 | 22.44 | 24.41 | 28.15 |

Larger capacities up to 1000te (price on application).