

TELSHACK-B Wireless Telemetry Crosby™ Bow Shackle Load Cell

TYPE: TELSACK-B

Features

- Ranges 1tonne to 400tonne
- High Tensile Carbon Steel Construction
- Environmentally Sealed to IP67
- Simple installation and operation
- Shackle and load pin fully certified
- Optional load centralising bobbin
- Can be supplied with amplified output
- Many other options available

Typical Applications

- Under-hook Hoist/Crane Weighing
- Cable Tension Mounting
- Towing/Mooring Tension
- Beam Proof loading

Description

The TELSACK-B range of telemetry shackles are manufactured using the Crosby G2130 (12-25tonne) and G2140 (40-400tonne). Versions are also available using the popular GreenPin™ range of shackles. The built in radio telemetry electronics operates on the 2.4GHz license free frequency.

The telemetry housing is manufactured from stainless steel, offering a robust solution. Located in the housing are two AAA NiMh batteries, which can be accessed by removing the telemetry housing cover. No tools are required, making it easy to do on site. The batteries can be recharged using the universal charger supplied. In emergencies (when you do not have time to recharge the batteries), standard alkaline batteries can also be used.

There is an external sealed aerial, which can be rotated to offer the best signal polarity and hence the best transmission range, making it more versatile for different applications.

The TELSACK-B is supplied as standard with a handheld battery powered display, or alternatively, for multi-shackle applications, a single display can address up to 12 shackles for individual monitoring, or for summation/balancing applications.

LCM Systems can also supply more complex telemetry systems. For further information on what we can offer, please contact our Technical Department, with details of your application requirements.



Specification

| | |
|---------------------------------|--|
| Rated Load (tonne): | 12, 17, 25, 40, 55, 85, 120, 200, 300, 400 |
| Proof Load: | 150% of Rated Load |
| Ultimate Breaking Load: | 300% of Rated Load |
| Non-Linearity: | <±1.0% of Rated Load (typically) |
| Non-Repeatability: | <±0.10% of Rated Load |
| Transmission Distance: | Up to 120 metres (clear line of sight) |
| Battery Life: | 200 hours typically (continuous use) |
| Battery: | Internal rechargeable NiMh |
| Battery Charging: | Batteries can be removed from case for recharging |
| Operating Temperature Range: | -20 to +60°C |
| Ultimate Breaking Load: | >300% of Rated Load |
| Non-Linearity: | <±1.0% of Rated Load (typically) |
| Non-Repeatability: | <±0.10% of Rated Load |
| Environmental Protection Level: | IP67 |
| Options Available: | Special ranges available Centralising Bobbin Greenpin™ shackle version (see separate datasheet) Special telemetry systems available |

Wireless Telemetry Bow Shackle Load Cell

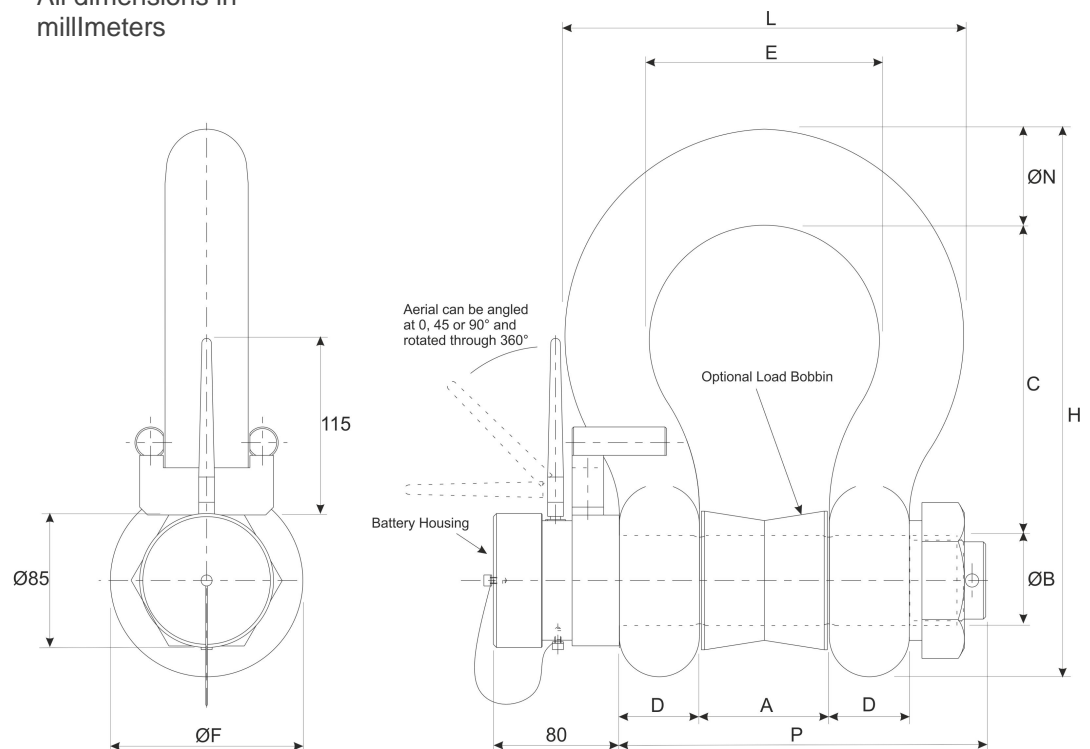
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All specifications for options are as detailed for the standard shackle, unless otherwise stated

| | |
|-----------------------|---|
| Special Ranges | The TELSHACK-B can be supplied in any range, between 12te and 400te and calibrated as required. Usually we will choose the nearest standard shackle size. We can also offer special design shackles up to 2000te. Consult our design team for more details. |
| Centralising Bobbin | We can offer an optional centralising bobbin. This can help improve the overall accuracy in certain cable tension applications. The bobbin is shown pictorially in the drawing below. For further information, please contact our design team. |
| Multi-Shackle Systems | It is possible with the standard handheld telemetry display to use to 12 shackles with a single handheld. Each shackle is paired with the handheld and can be used to view individual load cells or summated load cells. These values can be sent to a printer or a PC. |

Mechanical Dimensions

All dimensions in millimeters



| Model | Range SWL (tonne) | A | ØB | C | ØD | ØE | ØF | H | L | ØN | Weight (kg) |
|----------------|-------------------|------|------|-----|------|------|------|------|-----|------|-------------|
| TELSHACK-B-12 | 12 | 51.5 | 35.1 | 119 | 31.8 | 82.5 | 76.0 | 210 | 146 | 35.1 | 8 |
| TELSHACK-B-17 | 17 | 60.5 | 41.4 | 146 | 38.1 | 98.5 | 92.0 | 254 | 175 | 41.1 | 12 |
| TELSHACK-B-25 | 25 | 73.0 | 51.0 | 178 | 44.5 | 127 | 106 | 313 | 225 | 57.0 | 18 |
| TELSHACK-B-40 | 40 | 73.0 | 51.0 | 178 | 44.5 | 127 | 106 | 313 | 225 | 57.0 | 18 |
| TELSHACK-B-55 | 55 | 82.5 | 57.0 | 197 | 51.0 | 146 | 122 | 348 | 253 | 61.0 | 25 |
| TELSHACK-B-85 | 85 | 105 | 70.0 | 267 | 66.5 | 184 | 145 | 453 | 327 | 79.0 | 45 |
| TELSHACK-B-120 | 120 | 127 | 82.5 | 330 | 76.0 | 200 | 165 | 546 | 365 | 92.0 | 85 |
| TELSHACK-B-150 | 150 | 133 | 95.5 | 372 | 95.5 | 229 | 203 | 625 | 419 | 105 | 125 |
| TELSHACK-B-200 | 200 | 184 | 121 | 397 | 95.5 | 279 | 267 | 743 | 533 | 152 | 215 |
| TELSHACK-B-300 | 300 | 213 | 152 | 495 | 121 | 330 | 305 | 895 | 635 | 172 | 364 |
| TELSHACK-B-400 | 400 | 225 | 175 | 650 | 165 | 325 | 350 | 1070 | 650 | 165 | 520 |

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Due to continual product development, LCM Systems Ltd. reserves the right to alter product specifications without prior notice.

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