

TESHACK-D Wireless Crosby™ D Load Shackle

Description

The TESHACK-D range of telemetry load shackles are manufactured using the Crosby™ G2150 shackles. 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 unique telemetry housing is manufactured from tough high performance polyamide resin making it strong yet light, resulting in a better balanced load shackle when compared to others available on the market. Two clips enable you to open the housing to access and change the two AAA alkaline batteries, while the internal electronics underneath remain completely sealed. This includes the antenna to ensure maximum protection from damage.

The TESHACK-D is supplied as standard without any additional wireless devices to enable greater flexibility with the configuration and ordering of the product. The TESHACK-D can be used with any of the T24 range of wireless instrumentation, whether this be for a simple display system using the T24-HS-LS, or more complex systems using multiple load cells and multiple wireless devices.

For more sophisticated systems, including datalogging or monitoring/reporting requirements, we are able to offer a robust tablet PC with installed software for use with single or multiple load cell installations. Our sales team will be happy to discuss the best wireless system configuration to suit your requirements.

The TESHACK-D series can be provided as shown in this datasheet or can be modified to meet a particular application requirement. We are always pleased to discuss any special requirements that can be accommodated.

Specification

Rated load (tonnes)	12, 17, 25, 35
Proof load	150% of rated load
Ultimate breaking load	300% of rated load
Non-linearity	<±1% of rated load (typically)
Non-repeatability	<±0.1% of rated load
Transmission distance	Up to 600 metres (clear line of sight)
Battery life	>300 hours (continuous use, with 1.2Ah batteries)
Battery (standard)	AAA Alkaline x 2 (supplied with 1.2Ah batteries)
(ATEX)	AAA L92 Lithium x 2 (supplied with 12Ah batteries)
Operating temperature range	-20 to +55°C (-20 to +50°C for Ex i versions)
ATEX certification details	II 2G Ex ib IIC T4 Gb
Environmental protection level	IP67
Telemetry housing	Polyamide resin

Available Options

- Special ranges available
- Hazardous Area certified - Intrinsically Safe (Ex i)
- Integral signal conditioning
- Centralising load bobbin
- Lloyds, ABS or DNV witness testing
- Various wireless accessories available. See T24 range of wireless products



Features

- Ranges from 12 to 35 tonnes
- 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 monitoring
- Towing/mooring Tension
- Crane safe load monitoring
- Beam proof loading

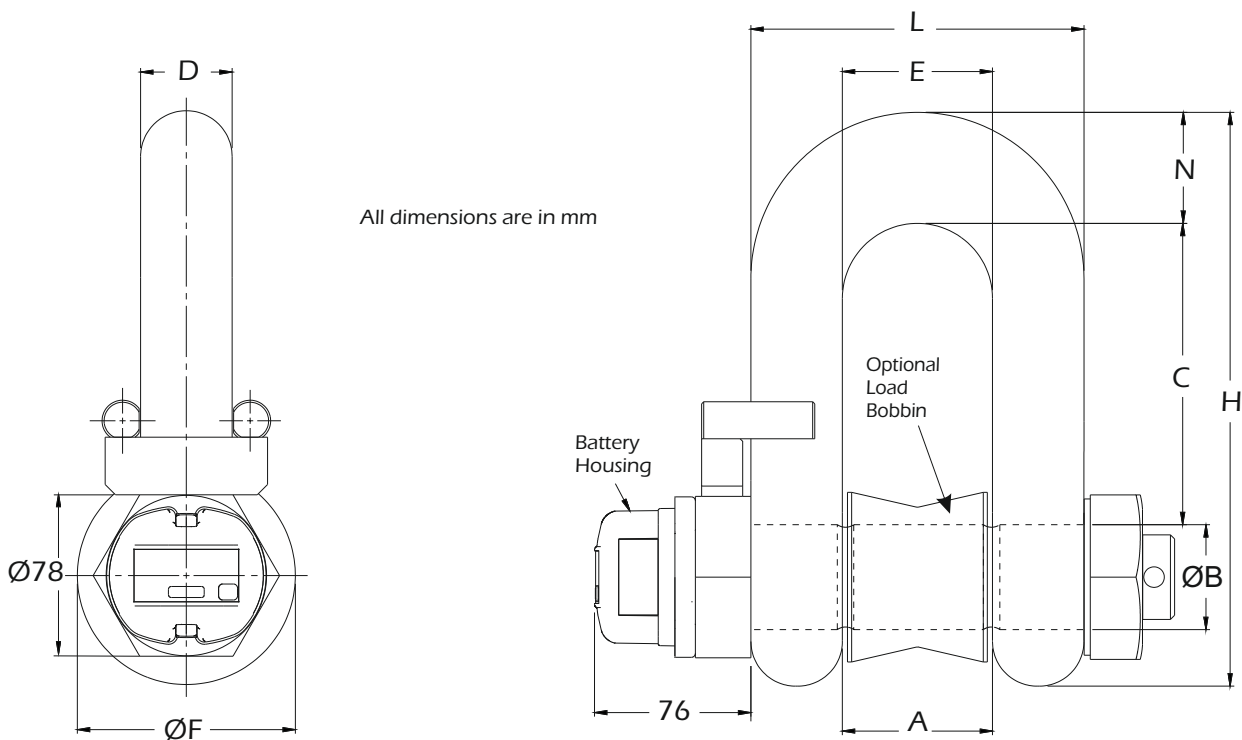


TELSHACK-D Wireless Crosby™ D Load Shackle

Special Options

Special ranges	The TELSACK-D can be supplied in any range, between 12te and 35te and calibrated as required. Usually we will choose the nearest standard shackle size. We can also offer special design shackles up to 2000te. Please contact our design team for more details
Centralising bobbin	We can offer an optional centralising bobbin. This helps improve the overall load cell accuracy in certain cable tension applications. The bobbin is shown pictorially in the drawing below.
Multi-shackle systems	It is possible with the T24-HA handheld telemetry display to use up 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.
Hazardous Area	We can supply ATEX/IECEx certified load shackles for use in Zone 1 and Zone 2 hazardous areas.

Dimensions



Rating (tonnes)	A	ØB	C	D	E	ØF	H	L	N	Weight (kgs)	Resolution (tonnes)
12	51.5	35.1	100	31.8	51.5	76	191	115	35.1	6.5	0.01
17	60.5	41.4	122	38.1	60.5	92	230	137	41.1	11	0.02
25	73	51	146	44.5	73	106	279	162	54	17	0.02
35	82.5	57	172	51	82.5	122	312	184	60	23	0.05

Note 1: Part numbers for ATEX versions will be suffixed with -ATEX-I e.g.TELSACK-D-25T-ATEX-I.
Note 2: Dimensions may change for hazardous area versions.

A summary of available wireless devices that can be used to enhance the AWLL in your application can be viewed on the next page of this datasheet.

For further assistance on system configuration, please call us or email your requirements to sales@lcmsystems.com.

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Wireless Receivers/Display Options



T24-HS-LS
Simple wireless display for connecting to 1 load cell



T24-HA
Wireless display for connection to up to 12 load cells



T24-HR
Wireless display for connecting to multiple load cells



X24-HD
ATEX Wireless display for connection to up to 24 load cells

Wireless Base Station Options



T24-BSu
Wireless USB connected base station



T24-Bsd
Wireless compact USB connected dongle base station



T24-BSue
Wireless USB extended range base station



T24-BSi
Wireless USB, RS485, RS232 connected base station

Wireless Output Module Options



T24-RM1
Wireless relay, switch output module



T24-SO
Wireless serial ASCII output module



T24-AO1
Wireless analogue output module



T24-PR1
Wireless surface mounting tally roll printer



T24-AR
Wireless range extender repeater module

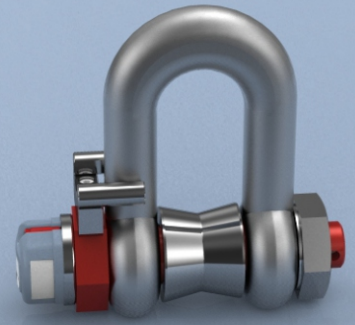
Wireless Software Options



LCM Systems are able to offer various software solutions for our wireless range of load cells. We encourage you to speak to our sales team to discuss any standalone software requirements you may have.

The solutions we regularly offer include centre of gravity weighing and reporting, multiple load cell display & reporting and PC based datalogging. Other solutions can also be offered.

For more detailed information regarding wireless instrumentation visit www.lcmsystems.com/T24



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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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