

WIRELESS LOAD SHACKLE



- RATED LOAD 4750 KG
- RADIO 2.4 GHZ · UP TO 800 M
- SAFETY FACTOR 5:1
- STAINLESS STEEL LOAD PIN · IP67



IP67



Stainless
Steel



2,4 GHz

RATED LOAD (SWL)

kg	t	kN	Safety factor
4750	4.75	47.5	5:1

Rated load = safe working load (SWL). Factory calibrated; accuracy with original bobbin typically $\pm 1\%$ of load or ± 25 kg, whichever is greater.



OVERVIEW

A wireless load shackle for rigging points: 4750 kg rated load, readings by 2.4 GHz radio up to 800 m, factory calibrated.

Built to withstand challenging environments and weather conditions, it monitors and logs precise loads on any given rigging point: to safely distribute weight for indeterminate loads, roof structures and mother-grids, and to indicate alarms against rigging component overload. The surface treated bow follows BS EN 13889, the load pin is aerospace grade stainless steel; a load centralising bobbin is supplied as standard.

4750 kg rated load (SWL)	800 m radio range, 2.4 GHz	5:1 safety factor	±1 % of load, min. ±25 kg
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LOAD SHACKLE
■ rated load 4750 kg, safety factor 5:1
■ BS EN 13889 bow, stainless steel load pin
■ load centralising bobbin, anti-rotational bracket
■ rigging profile below 70 mm, IP67

WIRELESS TRANSMISSION
■ 2.4 GHz radio, up to 800 m
■ comfortable in challenging RF environments
■ factory calibrated, zero trim
■ units kg, lbs, tonnes, ton, ton (US), kN



TECHNICAL DATA

MEASUREMENT

Weight range (SWL)	4750 kg
Accuracy, original bobbin	typically ± 1 % of load or ± 25 kg, whichever is greater
Accuracy, non-original bobbin	typically ± 2 % of load or ± 35 kg, whichever is greater
Calibration	factory calibrated
Zero	zero trim shackle
Units	kg, lbs, tonnes, ton, ton (US), kN

ELECTRONICS

Condition	1000 Ω bridge, 2.5 mV/V, 3 V, 25 °C
Offset temperature stability	typ. 1, max. 4 ppm/°C
Gain temperature stability	typ. 3, max. 5 ppm/°C
Offset stability with time	typ. 20, max. 80 ppm of FR
Gain stability with time	max. 30 ppm of FR
Internal resolution	16,000,000 / 24 bits
Noise free (5 ms)	50,000 / 15.5 bits

MECHANICAL PROPERTIES

Type	bow shackle with load pin
Bow	surface treated, BS EN 13889
Load pin	aerospace grade stainless steel
Load centering	load centralising bobbin, standard
Anti-rotation	anti-rotational bracket
Rigging profile	< 70 mm
Dimensions	130 × 125 × 62 mm

MECHANICAL LIMITS

Safe working load	4750 kg
Safety factor	5:1

WIRELESS TRANSMISSION

Radio frequency	2.4 GHz
Transmission distance	up to 800 m
Receivers	choice of receivers; on a PC a base station and free software
Matching (octogon)	EFME USB base station · EFMD handheld

POWER SUPPLY

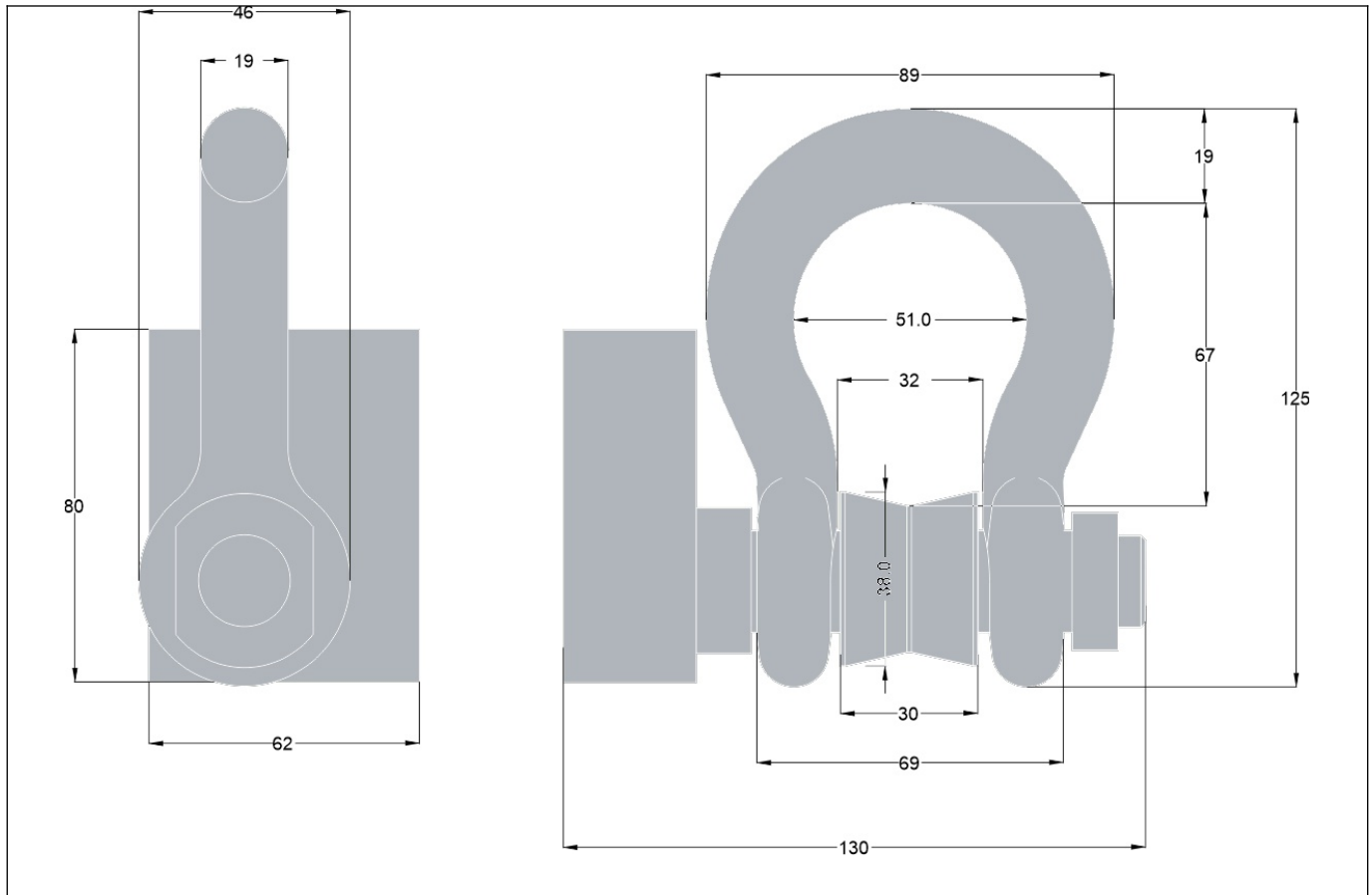
Batteries	2 × AA, Energizer L91
Life at 1 update/s	estimated, when awake
Sleep	2.5+ years
Continuous operation	3.5 months
8 hours per day	10 months
4 hours per day	1.5 years
2 hours per day	2.8 years

ENVIRONMENTAL

Operating temperature	-20 ... +55 °C
Storage temperature (no batteries)	-40 ... +85 °C
Humidity (excl. batteries)	max. 95 %RH
Protection	IP67, fully weatherised



DIMENSIONS (mm)



Dimensions in mm (manufacturer drawing). Pin and bow are calibrated together and must be kept as a pair; use only with bobbin, nut and retaining clip, load perpendicular to the pin and centralised on the bobbin.

COMPLIANCE AND CERTIFICATION

Protection Rating IP67

