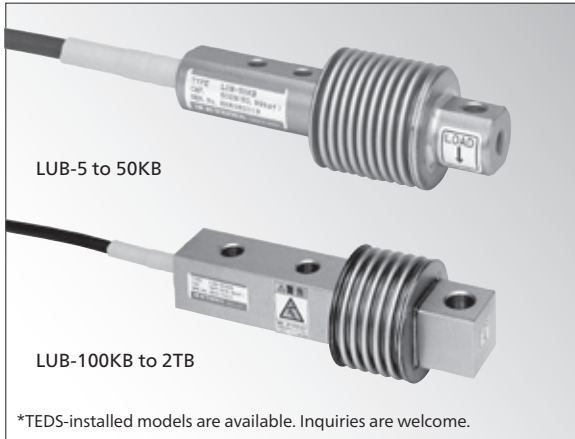


LUB-B

Beam-type Load Cell



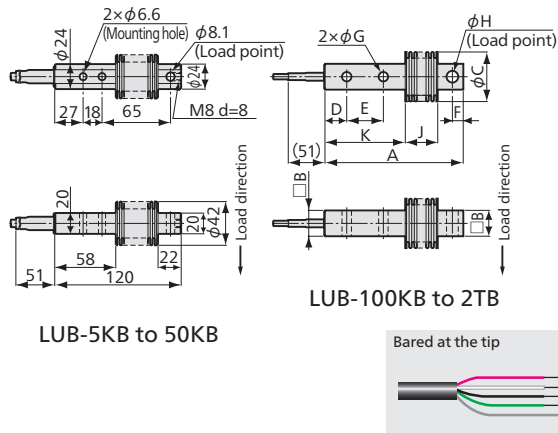
*TEDS-installed models are available. Inquiries are welcome.

Compact & Lightweight Metal Bellows

- Nonlinearity: Within $\pm 0.03\%RO^{*1}$
 - Special steel body^{*1}
 - Corrosion-resistant^{*2}
- *1: 5KB to 50KB *2: 100KB to 2TB

LUB-5KB to 50KB feature a nonlinearity of within $\pm 0.03\%RO$ and LUB-100KB to 2TB feature corrosion-resistant stainless steel body and bellows. As load detectors, they enable configuration of accurate and stable weighing systems for conveyors and tanks.

■ Dimensions



- Nonlinearity: Within $\pm 0.03\%RO$ (50 N to 500 N)
- 50 N to 20 kN

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.03\%RO$ for 50 to 500 N Within $\pm 0.05\%RO$ for 1 to 20 kN
Hysteresis	Within $\pm 0.03\%RO$ for 50 to 500 N Within $\pm 0.05\%RO$ for 1 to 20 kN
Repeatability	0.03% RO or less
Rated Output	2 mV/V $\pm 0.3\%$

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.003\%RO/^\circ C$
Temperature Effect on Output	Within $\pm 0.003\%/^\circ C$

Electrical Characteristics

Safe Excitation	20 V AC or DC
Recommended Excitation	1 to 12 V AC or DC
Input Resistance	435 \pm 60 Ω for 50 to 500 N 400 \pm 50 Ω for 1 to 20 kN
Output Resistance	350 \pm 2 Ω
Cable	4-conductor (0.3 mm ²) chloroprene shielded cable, 7.6 mm diameter by 3 m long (5 m long for 1 to 20 kN), bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

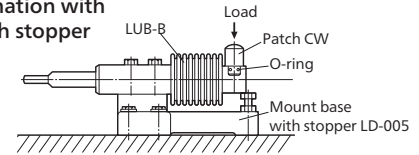
Safe Overloads	150%
Natural Frequencies	See table below.
Weight	See table below.
Degree of Protection	IP67 (IEC 60529)

Optional Accessories (For details, see pages 2-72 to 2-76)

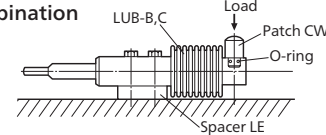
Saddle CA-B, Patch CW, Spacer LE, Hanger TW, Mount base with stopper LD-005

■ In Combination with Special Accessories

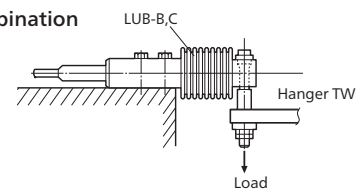
- LUB-B in combination with mount base with stopper



- LUB-B/C in combination with spacer



- LUB-B/C in combination with hanger



Models	Rated Capacity	Natural Frequencies	A	B	φC	D	E	F	φG	φH	J	K	Weight	Patches	Mount Bases with Stopper	Spacers	Hangers
LUB-5KB	50 N	≈ 250 Hz	See dimensions above.										≈ 350 g	CW-005	LD-005	LE-005	TW-002 (For 5KB to 20KB)
LUB-10KB	100 N	≈ 350 Hz															TW-005 (For 5KB to 50KB)
LUB-20KB	200 N	≈ 500 Hz															
LUB-30KB	300 N	≈ 650 Hz															
LUB-50KB	500 N	≈ 800 Hz															
LUB-100KB	1 kN	≈ 1.8 kHz	120	20	42	25	20	10	8.4	10.1	36	60	≈ 350 g	CW-02	—	LE-02	TW-02
LUB-200KB	2 kN	≈ 1.9 kHz															
LUB-500KB	5 kN	≈ 1.1 kHz															
LUB-1TB	10 kN	≈ 1.2 kHz	190	35	67	30	50	15	13	16.1	45	110	≈ 1.5 kg	CW-1	—	LE-1	TW-1
LUB-2TB	20 kN	≈ 1.1 kHz	220	44	84	30	60	20	17	20.2	54	124	≈ 2.8 kg	CW-2	—	LE-2	TW-2

● Physical quantity indication

● Static measurement ● Dynamic measurement

LUB-B Recommended products for combination

Instrumentation Amplifier WGA-900A → 3-95

Instrumentation Amplifier WGA-680A → 3-97

Data Logger UCAM-60B → 3-25

Strain Amplifier DPM-900 Series → 3-5

Universal Recorder EDX-200A → 3-55

Universal Recorder EDX-100A → 3-63