

LUB-B

Beam-type Load Cell

CE
(100KB to 2TB)

1
-96

Sensor



Beam models with metal bellows

- Rated capacity: 50 N to 20 kN
- High accuracy (nonlinearity: Within $\pm 0.03\%$ RO⁽¹⁾)
- Degree of protection: IP67

*1: LUB-5 to 50KB

Beam load cells that can be used as load detectors in weighing systems.

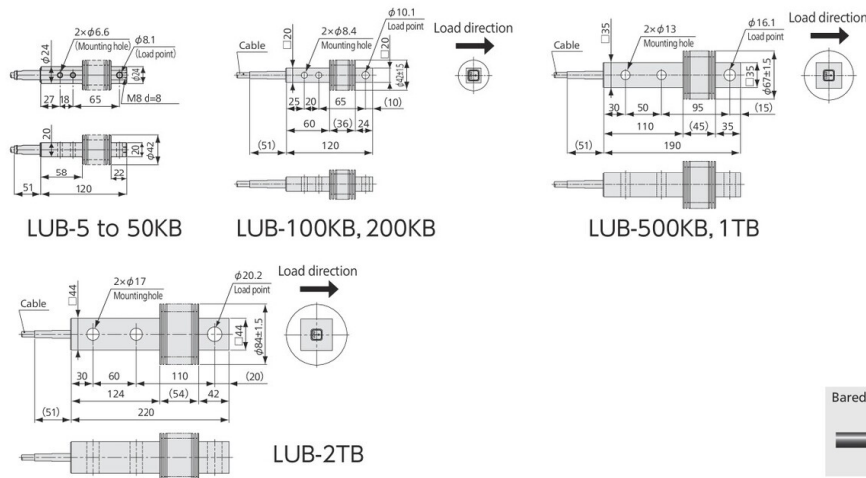
Models

Model	Rated Capacity	Natural Frequencies (Approx.)	Weight (Approx.) ^{*1}	Patch	Mount Base with Stopper	Spacer	Hanger
LUB-5KB	50 N	250 Hz	350 g	CW-005	LD-005	LE-005	TW-002 (For 5KB to 20KB) TW-005 (For 5KB to 50KB)
LUB-10KB	100 N	350 Hz					
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	1.5 kg	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					
LUB-2TB	20 kN	1.1 kHz	2.8 kg	CW-2	—	LE-2	TW-2

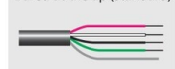
*1 Excluding cable

*TEDS-installed models are available. Please contact us.

Dimensions



Bared at the tip (standard)



Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.03\%$ RO (100KB or more: Within $\pm 0.05\%$ RO)
Hysteresis	Within $\pm 0.03\%$ RO (100KB or more: Within $\pm 0.05\%$ RO)
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/°C
Temperature Effect on Output	Within $\pm 0.003\%$ /°C

Electrical Characteristics

Safe Excitation	20 V AC or DC
Recommended Excitation	1 to 12 V AC or DC
Input Resistance	435 Ω ± 60 Ω (100KB or more: 400 Ω ± 50 Ω)
Output Resistance	350 Ω ± 2 Ω
Cable	4-conductor (0.3 mm ²) chloroprene shielded cable, 7.6 mm diameter by 3 m long, bared at the tip. (100KB or more: 5 m long) (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 (JIS C 0920/IEC 60529)
Compliance (100KB to 2TB)	

Directive 2011/65/EU, (EU)/2015/863 (10 restricted substances) (RoHS)

Optional Accessories

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

Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor