

Beam-type Load Cell



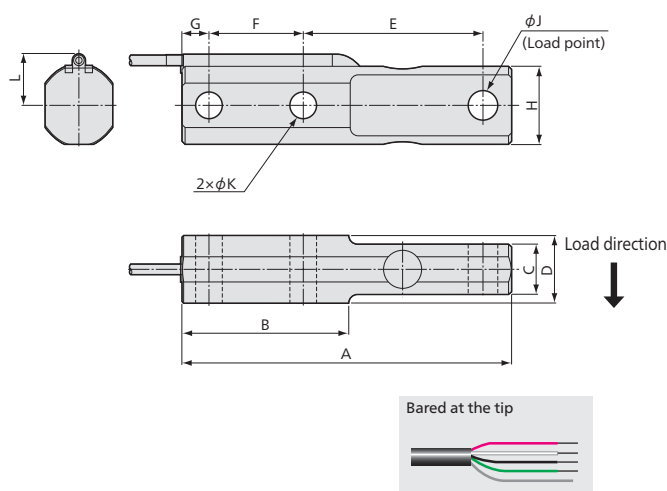
*TEDS-installed models are available. Inquiries are welcome.

Developed as OEM-oriented industrial beam-type load cells

- Low price
- Compact & lightweight
- Nonlinearity: Within $\pm 0.05\%$ RO

Developed as OEM-oriented industrial beam-type load cells with nonlinearity of within $\pm 0.05\%$ RO. As load detectors, LUB-C series enables configuration of accurate and stable weighing systems for conveyors and tanks.

Dimensions



Models	Rated Capacity	Natural Frequencies (Approx.)	A	B	C	D	E	F	G	H	ϕJ	ϕK	L	Weight including cable (Approx.)	Patches	Spacers	Hangers
LUB-500KC	5 kN	1.3 kHz	174	88	23.4	35	95	50	14	38	16.1	14	27	1.3 kg	CW-1	LE-1	TW-1
LUB-2TC	20 kN		206	106	32.6	44	110	60	16	53	20.2	18	34	2.7 kg	CW-2	LE-2	—

● Nonlinearity: Within $\pm 0.05\%$ RO ● 5 & 20 kN

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.05\%$ RO
Hysteresis	Within $\pm 0.05\%$ RO
Repeatability	0.03% RO or less
Rated Output	2 mV/V $\pm 0.5\%$

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	380 Ω $\pm 8\%$
Output Resistance	350 Ω $\pm 1\%$
Cable	4-conductor (0.14 mm ²) chloroprene shielded cable, 6 mm diameter by 2 m long, bared at the tip (Shield wire is not connected to the case.)

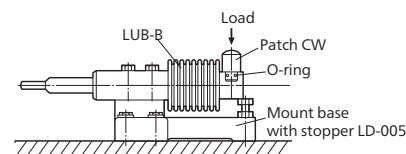
Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Weight	See table below.

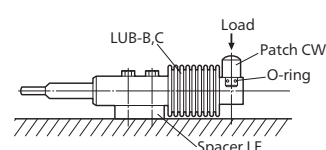
Optional Accessories Patch CW (Page 2-67)
Spacer LE (Page 2-68)
Hanger TW (Page 2-73)

In combination with special accessories

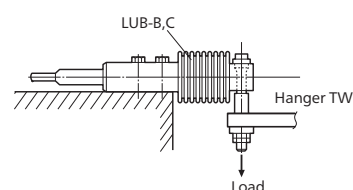
● LUB-B in combination with mount base with stopper



● LUB-B/C in combination with spacer



● LUB-B/C in combination with hanger



Load Cells
(Load Transducers)

Outline

Compressive

Tensile

Tensile & compressive

Component

Special

Other