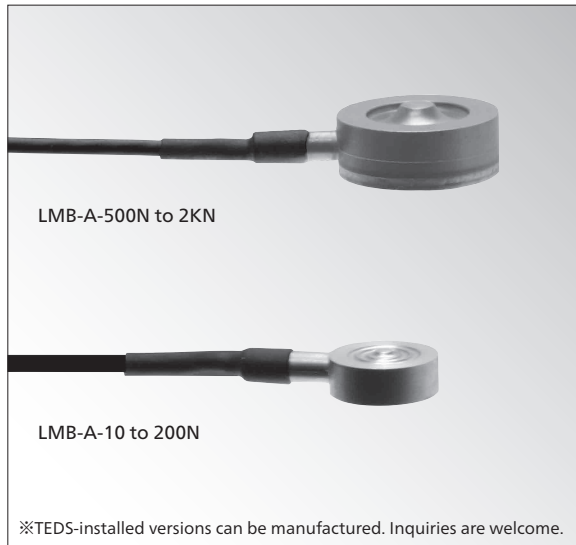


LMB-A

● 10 N to 2 kN

Small-Sized Compression Load Cells



Compact, Lightweight, Low Price Suitable for Load Distribution Measurement

Ultra-small and lightweight LMB-A series load cells can be used by merely putting or bonding on the measurement point or setting in a hollow. (Patent pending)

Specifications

Performance

Rated Capacity:	See table below.
Nonlinearity:	Within $\pm 0.5\%$ RO
Hysteresis:	Within $\pm 0.5\%$ RO:
Repeatability:	Within $\pm 0.3\%$ RO
Rated Output:	1.4mV/V(2800 μ m/m) or more
Note: Rated output is sorted to one of the classes divided by every 1% difference in output value to the rated capacity. Since the rated output stated in the Test Data Sheet is the center value of the class, it may have a maximum error of $\pm 0.5\%$.	

Environmental Characteristics

Safe Temperature Range:	-10 to 80°C (noncondensing)
Compensated Temperature Range:	0 to 70°C (noncondensing)
Temperature Effect on Zero Balance:	
	Within $\pm 0.1\%$ RO/°C (LMB-A-50N)
	Within $\pm 0.05\%$ RO/°C (LMB-A-100N to 2KN)
Temperature Effect on Output	
	Within $\pm 0.05\%$ /°C

Electrical Characteristics

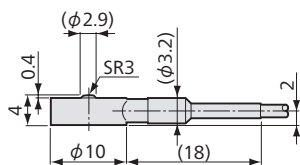
Safe Excitation Voltage:	7V AC or DC
Recommended Excitation Voltage:	1 to 5V AC or DC
Input Resistance:	350 Ω \pm 2.5%
Output Resistance:	350 Ω \pm 2.5%
Cable: 4-conductor (0.035 mm ²) vinyl shielded cable, 1.7 mm diameter by 2 m long, bared at the tip (Shield wire is not connected to mainframe.)	

Mechanical Properties

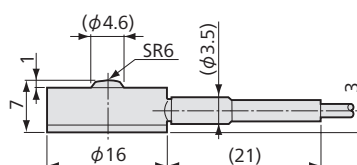
Safe Overload Rating:	150%
Natural Frequency:	See table below.
Material:	Stainless steel
Weight:	10 to 200N: approx. 1.5g (not including cable) 500N to 2kN: approx. 6g (not including cable)
Protection Rating:	IP64 JIS C 0920 splash-proof type

Model	Rated Capacity	Natural Frequency (Approx.)
LMB-A-10N	10N	32kHz
LMB-A-50N	50N	40kHz
LMB-A-100N	100N	47kHz
LMB-A-200N	200N	59kHz
LMB-A-500N	500N	37kHz
LMB-A-1KN	1kN	45kHz
LMB-A-2KN	2kN	54kHz

Dimensions

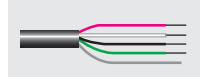


LMB-A-50 to 200N



LMB-A-500N to 2KN

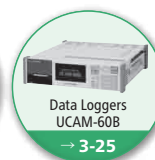
Bared at the tip



● Physical quantity indication

● Static measurement

● Dynamic measurement



Field to recommend

