●10 N to 2 kN

LMB-A

Small-sized Compression Load Cell



Ultra-small & lightweight Moderate price Suitable for load distribution measurement

Ultra-small and lightweight LMB-A series load cells are used by just putting or bonding on the measurement point or setting in a hollow.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.5% RO
Hysteresis	Within ±0.5% RO
Repeatability	0.3% RO or less
Rated Output	1.4 mV/V or more
	10N: 0.5 mV/V or more

Environmental Characteristics

Safe Temperature	-10 to 80°C (Non-condensing)	
Compensated Temperature	0 to 70°C (Non-condensing)	
Temperature Effect on Zero	Within ±0.05% RO/°C	
	(10N: Within ±0.2% RO/°C)	
	(50N: Within ±0.1% RO/°C)	
Temperature Effect on Output	Within ±0.05%/°C	
	(10N: Within ±0.1%/°C)	

Electrical Characteristics

Electrical characteristics		
Safe Excitation	7 V AC or DC	
Recommended Excitation	1 to 5 V AC or DC	
Input Resistance	350 Ω ±2.5%	
Output Resistance	350 Ω ±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 the case.)		

Mechanical Properties

Safe Overloads	150%	
Natural Frequencies	See table below.	
Material	Stainless steel	
Weight	10N to 200N: Approx. 1.5 g (Excluding cable)	
	500N to 2KN: Approx. 6 g (Excluding cable)	
Degree of Protection IP64 (IEC 60529)		
Compliance	Directive 2011/65/EU (RoHS)	

Optional Accessories Mount base CFM-B (Page 2-72)

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

Outline

Compressive

Tensile

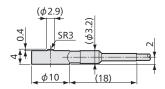
Tensile & compressive

Component

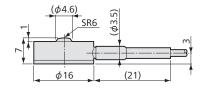
Special

Other

Dimensions



LMB-A-10N to 200N



LMB-A-500N to 2KN

