LMB-A

Small-sized Compression Load Cell

●10 N to 2 kN

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

Compact & Lightweight Moderate Price Suitable for Load Distribution Measurement

Ultra-small and lightweight LMB-A series load cells are used by merely 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	Within ±0.3% RO
Rated Output	1.4 mV/V or more but 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 for 100 N to 2 kN
	Within ±0.1% RO/°C for 50 N
	Within ±0.2% RO/°C for 10 N
Temperature Effect on Output	
	Within ±0.05%/°C for 50 N to 2 kN
	Within ±0.1%/°C for 10 N

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 mm²) vinyl shielded cable, 1.7 mm diameter by 2 m long, bared at the tip (Shield wire is not connected to the case.)

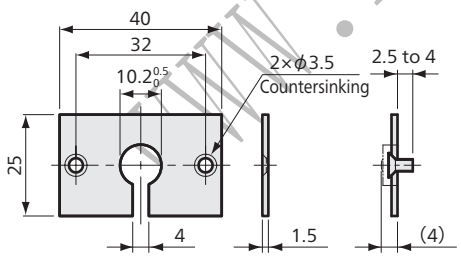
Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Materials	Stainless steel
Weight	10 N to 200 N: Approx. 1.5 g (Excluding cable) 500 N to 2 kN: Approx. 6 g (Excluding cable)
Degree of Protection	IP64 (IEC 60529)
RoHS Directive	EN50581

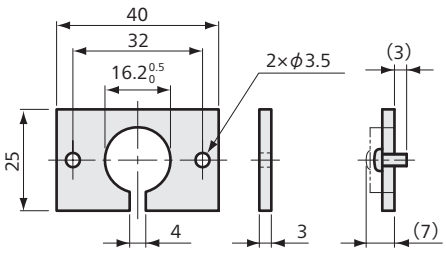
Optional Accessories: Mount Base CFM-B

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

■Mount Base CFM-B

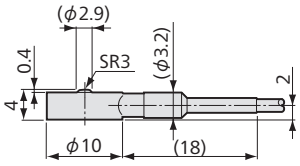


CFM-10B

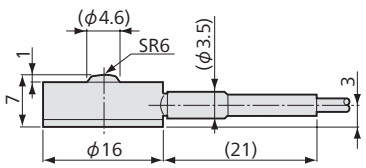


CFM-16B

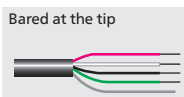
■Dimensions



LMB-A-50N to 200N



LMB-A-500N to 2KN



●Physical quantity indication ●Static measurement ●Dynamic measurement

LMB-A 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