

LMBT-A

● High-temperature ● 50 N to 2 kN

Small-sized Compression Load Cell



Ultra-small Sized Lightweight Suitable for Load Distribution Measurement

Ultra-small and lightweight. For high temperature up to 100°C. Merely putting or bonding on the measurement point or setting in a hollow.

Specifications

Performance

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

Environmental Characteristics

Safe Temperature	-20 to 120°C (Non-condensing)
Compensated Temperature	-10 to 100°C (Non-condensing)
Temperature Effect on Zero	Within ±0.05% RO/°C
Temperature Effect on Output	Within ±0.05%/°C

Electrical Characteristics

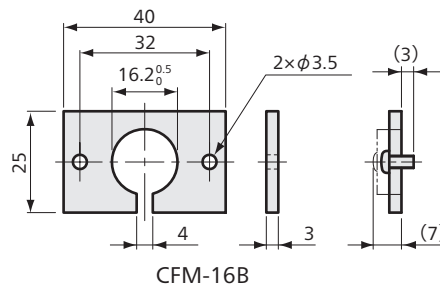
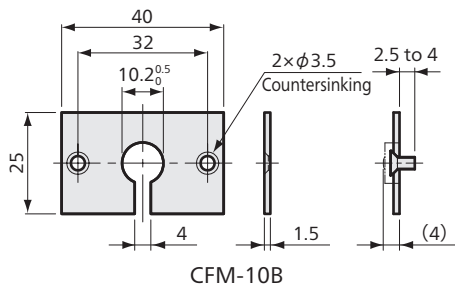
Safe Excitation	7 V AC or DC
Recommended Excitation	1 to 5 V AC or DC
Input Resistance	350 Ω±2.5%
Output Resistance	350 Ω±2.5%
Cable	4-conductor (0.035 mm ²) vinyl shielded cable, 1.8 mm diameter by 2 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

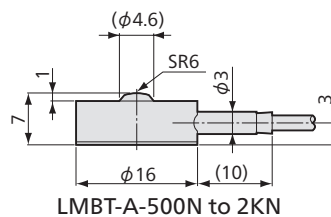
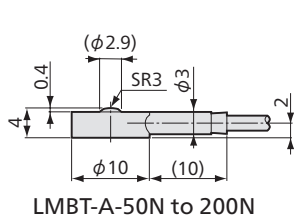
Safe Overloads	150%
Natural Frequencies	See table below.
Materials	Stainless steel
Weight	50 N to 200 N: Approx. 1.5 g (Excluding cable) 500 N to 2 kN: Approx. 6.5 g (Excluding cable)
Degree of Protection	IP64 (IEC 60529)
RoHS Directive	EN50581
Optional Accessories	Mount Base CFM-B

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

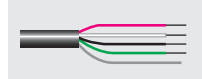
Mount Base CFM-B



Dimensions



Bared at the tip



● Physical quantity indication

● Static measurement ● Dynamic measurement

