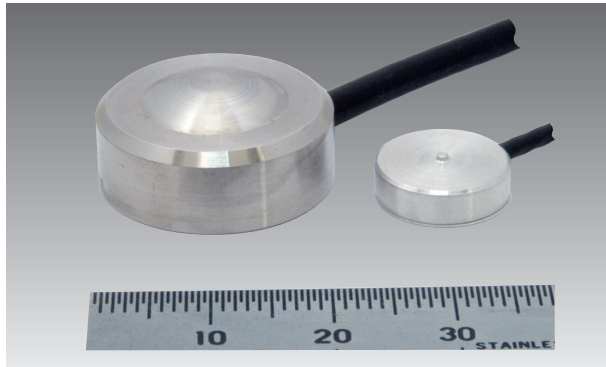


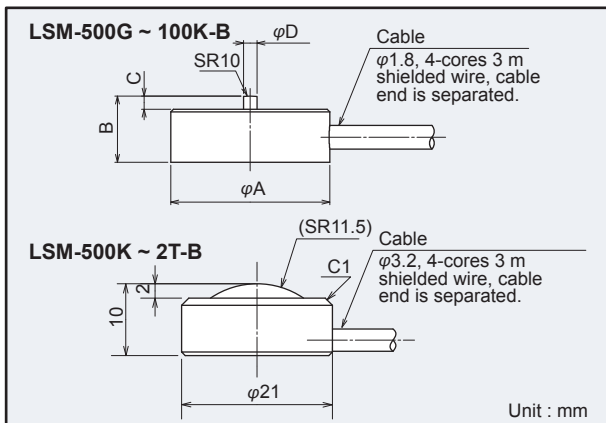
LSM-B Series - Miniature Compression Type Load Cell



Features

- Miniature type load cell.
- Suitable for application with limited space.
- Available for high accuracy model.

Outlines



Specifications

Rated capacity : 4.903 N {500 gf} ~ 19.61 kN {2 tf}
Safe overload : 150 %R.C.
Ultimated overload : 150 %R.C. (LSM-500K ~ 2T-B : 200 %R.C.)
Rated output : see below dimension table
Non-linearity : 1 %R.O. (LSM-2T-B : 2 %R.O.)
Hysteresis : 1 %R.O.
Repeatability : 1 %R.O.
Recommended excitation : 5 V or less
Maximum excitation : 8 V
Zero balance : ± 0.2 mV/V
Input resistance : $350 \Omega \pm 10 \Omega$
Output resistance : $350 \Omega \pm 10 \Omega$
Insulation resistance : 1 000 M Ω or more (DC50 V) (between bridge and body)
Compensated temp. range : 0 °C ~ 50 °C (LSM-500K~2T-B: - 10 °C ~ 60 °C)
Safe temp. range : - 10 °C ~ 60 °C (LSM-500K~2T-B: - 10 °C ~ 70 °C)
Temp. effect on zero balance : 2 %R.O./10 °C (LSM-500K~2T-B: 1 %R.O./10 °C)
Temp. effect on output : 2 %LOAD/10 °C (LSM-500K~2T-B: 1 %LOAD/10 °C)
Cable : $\phi 1.8$, 4-cores 3 m shielded cable directly attached, Cable end is separated. (LSM-500K ~ 2T-B : $\phi 3.2$)
Protection grade : IP60
Material : LSM-500G~2K-B: Aluminium
LSM-5K~2T-B: Stainless steel
Mounting method : by adhesive or double coated adhesive tape.
Durability : 10^6 times at rated capacity.

< Accessories >

- Inspection data sheet 1 copy

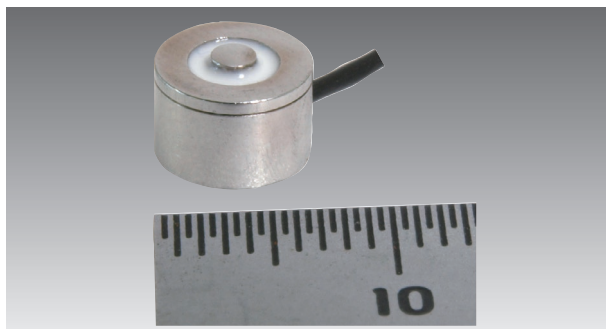
< Dimension table >

< Dimension table >

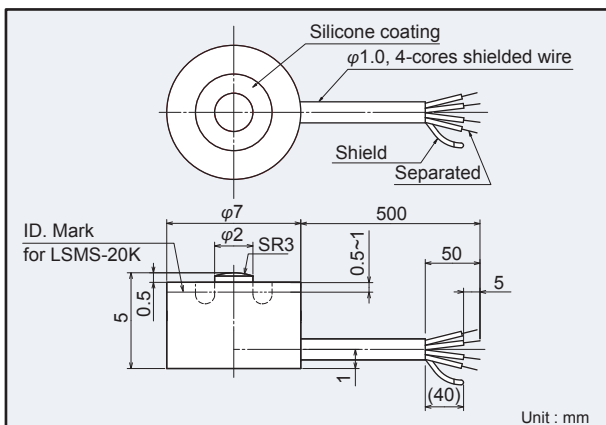
(Unit : mm)

Parts No.	Rated Capacity	Rated output	φA	B	C	φD	Displacement	Natural Freq. (Hz)	Weight (Approx.g)
LSM-500G-B	4.903 N {500 gf}	0.8±0.4 mV/V	12	4	0.5	1	0.05	10 000	6
LSM-1K-B	9.807 N {1 kgf}								
LSM-2K-B	19.61 N {2 kgf}								
LSM-5K-B	49.03 N {5 kgf}								
LSM-10K-B	98.07 N {10 kgf}	1.0±0.4 mV/V	15	5	0.5	1	0.05	14 000	10
LSM-20K-B	196.1 N {20 kgf}							19 000	
LSM-50K-B	490.3 N {50 kgf}							29 000	
LSM-100K-B	980.7 N {100 kgf}							33 000	
LSM-500K-B	4.903 kN {500 kgf}	1.5±0.5 mV/V	see outlines.				0.05	50 000	25
LSM-1T-B	9.807 kN {1 tf}								
LSM-2T-B	19.61 kN {2 tf}								

LSMS Series - Miniature Compression Type Load Cell



Outlines



Features

- Miniature type load cell with 5 mm at height and 7 mm at diameter.
- Suitable for application with limited space.

Specifications

Rated capacity : 196.1 N {20 kgf} ~ 490.3 N {50 kgf}
Safe overload : 150 %R.C.
Ultimated overload : 200 %R.C.
Rated output : 0.6 mV/V ± 0.1 mV/V
Non-linearity : 1 %R.O.
Hysteresis : 1 %R.O.
Repeatability : 1 %R.O.
Recommended excitation : 5 V
Maximum excitation : 12 V
Zero balance : ± 0.1 mV/V
Input resistance : $350 \Omega \pm 5 \Omega$
Output resistance : $350 \Omega \pm 5 \Omega$
Insulation resistance : 1 000 M Ω or more (DC50 V) (between bridge and body)
Compensated temp. range : - 10 °C ~ 50 °C
Safe temp. range : - 20 °C ~ 60 °C
Temp. effect on zero balance : 1 %R.O./10 °C
Temp. effect on output : 1 %LOAD/10 °C
Cable : $\phi 1.0$, 4-cores 50 cm shielded cable directly attached, cable end is separated.
Protection grade : IP64
Material : Stainless steel
Mounting method : by adhesive or double coated adhesive tape.
Durability : 10^6 times at rated capacity.

< Accessories >

- Inspection data sheet 1 copy

< Dimension table >

					(Unit : mm)
Parts No.	Rated Capacity	Displacement	Natural Freq. (Hz)	Weight (Approx.g)	
LSMS-20K	196.1 N {20 kgf}	0.003	67 000	2	
LSMS-50K	490.3 N {50 kgf}	0.005	62 000		