

Load cell LSMS-*-S06

Discontinued Products

2024/02/28

Alternative

Load cell LSMSB-*

Features



- Compact load cell with $\phi 7\text{mm} \times \text{height } 5\text{mm}$ (20 kgf / 50 kgf) ~ $\phi 16\text{mm} \times \text{height } 16\text{mm}$ (3tf) .
- Achieve the small size, high accuracy and the low price by in-house strain gage technology.
- Excellent in noise-proof by 4-gage method, and do not receive the temperature effect easily even if the sensor is built into the metal mold with high temperature.
- A free metal mold design that doesn't receive the restriction of the ejector pin diameter can be designed because of the method set up in the ejector pin bottom used.

Specification

Specification name	Specification contents
Rated capacity	196.1 N {20 kgf} ~ 29.42 kN {3 tf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	0.6 mV/V \pm 0.1 mV/V
Non-linearity	1 %R.O. (LSMS-500K-S06: 1.5 %R.O.)
Hysteresis	1 %R.O.
Repeatability	1 %R.O.

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repeatability	1 %R.O.
Recommended excitation	5 VDC
Maximum excitation	LSMS-20K~100K-S06 : 12 V, LSMS-200K~3T-S06 : 8 V
Zero balance	±0.1 mV/V
Input terminal resistance	LSMS-20K~100K-S06: 355 Ω±5 Ω, LSMS-200K/-500K-S06: 355 Ω±20 Ω, LSMS-1T-S06: 358 Ω±20 Ω, LSMS-3T-S06: 350 Ω±20 Ω,
Output terminal resistance	LSMS-20K~100K-S06: 355 Ω±5 Ω, LSMS-200K/-500K-S06: 355 Ω±20 Ω, LSMS-1T-S06: 358 Ω±20 Ω, LSMS-3T-S06: 350 Ω±20 Ω,
Insulation resistance	1 000 MΩ or more (at DC50 V) (between bridge and main body)
Compensated temperature range	-10°C ~ 150°C
Safe temperature range	-20°C ~ 150°C
Temp. effect on zero balance	1.0 %R.O./10°C
Temp. effect on output	1.0 %LOAD/10°C
Cable	LSMS-20K~100K-S06: φ1.0, 4-cores 1.2 m shielded cable with connector at cable end. LSMS-200K~500K-S06: φ1.0, 4-cores 1.5 m shielded cable with connector at cable end. LSMS-1T-S06: φ1.8, 4-cores 2 m shielded cable with connector at cable end. LSMS-3T-S06: φ3.2, 4-cores 2 m shielded cable with connector at cable end.
Minimum bending radius of cable	LSMS-20K~500K-S06: 5 mm, LSMS-1T-S06: 10 mm, LSMS-3T-S06: 16 mm
Class of protection	IP64
Material	Stainless steel HRC42 or more
Fatigue life	1 000 000 times at rated load