

# Miniature type LSMS

2023/03/22

## Features



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

## Specification

Specification name	Specification contents
Rated capacity	196.1 N {20 kgf} ~ 490.3 kN {50 kgf}
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.
Hysteresis	1 %R.O.
Repeatability	1 %R.O.
Excitation, recommended	5 V or less
Excitation, maximum	12 V
Zero balance	$\pm$ 0.1 mV/V
Input resistance	350 $\Omega$ $\pm$ 10 $\Omega$
Output resistance	350 $\Omega$ $\pm$ 10 $\Omega$
Insulation resistance	1.000 M $\Omega$ or more (DC50 V) (between bridge and main body)

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Temp. range, compensated	-10 °C ~ 50 °C
Temp. range, safe	-20 °C ~ 60 °C
Temp. effect on zero	1.0 %R.O./10 °C
Temp. effect on output	1.0 %LOAD/10 °C
Class of protection	IP64 or equivalent
Material of element	Stainless steel
Durability	1,000,000 times with rated load applied.

## Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [kgf]	Weight(Approx.) [g]	Natural frequency [Hz]	Rated displacement [mm]	Cable
LSMS-20K	196.1	20	2	67000	0.003	φ1.0, 4 -cores shielded 0.5 m cable directly attached. Cable end separated.
LSMS-50K	490.3	50	2	62000	0.005	φ1.0, 4 -cores shielded 0.5 m cable directly attached. Cable end separated.

Parts No.	CAD files[DXF]
LSMS-20K	<a href="#">lsms.dxf</a>
LSMS-50K	<a href="#">lsms.dxf</a>