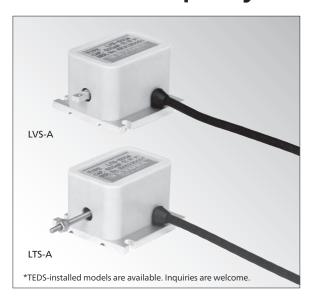
Ultra Small-capacity Load Cell

LVS-A/LTS-A



Designed to accurately measure small loads ranging from 50 mN to 20 N.

- Compact & lightweight
- High accuracy
- Easy to handle

These load cells are designed to accurately measure small loads ranging from 50 mN to 20 N. Easy to install and handle, the LVS-A series measures loads in vertical direction to the mounted surface and the LTS-A series, in horizontal direction.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.5% RO
Hysteresis	Within ±0.5% RO
Repeatability	0.5% RO or less
Rated Output	1.5 mV/V (3000 ×10 ⁻⁶ strain) or more
	5GA and 10GA: 1.2 mV/V (2400 ×10 ⁻⁶ strain) or more

Compact & lightweight

●50 mN to 20 N

Environmental Characteristics

Safe Temperature	-10 to 70°C
Compensated Temperature	0 to 60°C
Temperature Effect on Zero	Within ±0.05% RO/°C
Temperature Effect on Output	Within ±0.1%/°C

Electrical Characteristics

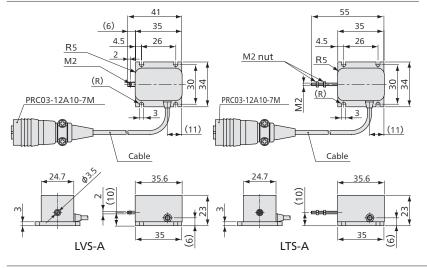
Safe Excitation	6 V AC or DC		
Recommended Excitation	1 to 2 V AC or DC		
Input Resistance	120 Ω±10%		
Output Resistance	120 Ω±10%		
Cable 4-conductor (0.05 mm²) chloroprene shielded cable,			
3 mm diameter by 1 m long, terminated with a connector plug			
PRC03-12A10-7M			
(Shield wire is not cor	nnected to the case.)		

Mechanical Properties

Safe Overloads	120%
Ultimate Overloads	See table below.
Weight	Approx. 50 g (Excluding cable)

Models	Natural Frequencies	Rated Capacity	Ultimate Overloads
LVS-5GA	≈ 50 Hz	50 mN	
LVS-10GA	≈ 111 Hz	100 mN	1000%
LVS-20GA	≈ 147 Hz	200 mN	
LVS-50GA	≈ 294 Hz	500 mN	
LVS-100GA	≈ 455 Hz	1 N	500%
LVS-200GA	≈ 667 Hz	2 N	
LVS-500GA	≈ 1220 Hz	5 N	
LVS-1KA	≈ 1600 Hz	10 N	250%
LVS-2KA	≈ 2500 Hz	20 N	
LTS-50GA	≈ 256 Hz	500 mN	
LTS-100GA	≈ 385 Hz	1 N	500%
LTS-200GA	≈ 625 Hz	2 N	
LTS-500GA	≈ 1000 Hz	5 N	
LTS-1KA	≈ 1670 Hz	10 N	250%
LTS-2KA	≈ 1700 Hz	20 N	

Dimensions



To Ensure Safe Usage

- ●The load cell should be carefully installed. Especially, never apply any impact (Force) in sensitivity direction.
- •When mounting the rod to the measuring object, do not apply any bending or twisting force.





















