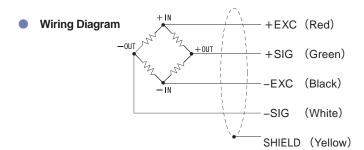
USM TENSION/COMPRESSION TYPE LOAD CELL



Safe overload of 500% Compact tension compression type load cell Ideal to measure tension, connectors mating quality check, experiments and more!

REAL SIZE



Very compact

Space-saving design. Ideal for side-by-side installation too.





Specifications

Model	USM-1N, 2N	USM-5N, 10N, 20N, 50N	
Rated capacity	1, 2	5, 10, 20, 50	N
Rated output	Approx. 0.4		mV/V
Safe overload	500		%R.C.
Zero balance	±0.3		mV/V
Non-linearity	0.2	0.1	%R.O.
Hysteresis	0.2	0.1	%R.O.
Repeatability	0.1		%R.O.
Compensated temperature range	-10 to+60		℃
Safe temperature range	-20 to+70		$^{\circ}$
Temperature effect on zero	1		%R.O./10℃
Temperature effect on span	1		%R.O./10℃
Input resistance	Approx. 1000		
Output resistance	Approx. 1000		
Recommended excitation voltage	5		V
Maximum excitation voltage	7.5		V
Insulation resistance	1000 or more		M
Cable	φ2 4-conductor flexible cable 1m		
	End treatment 5 leads.		
Load cell material	Aluminum alloy		

Easy to install

Two tapped holes at both hands enable easier connections to the actuator.

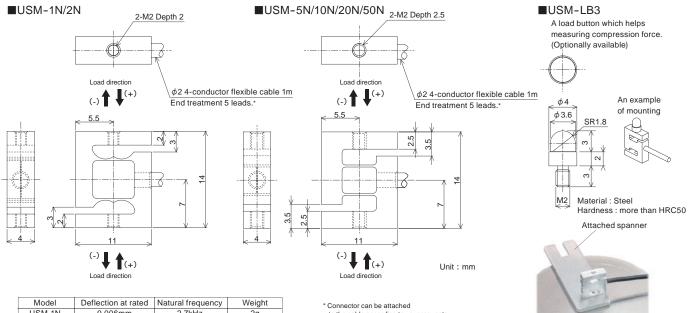


Great durability

Loadcell frequently gets damaged especially in small force measurement, and cable is easily broken.

Safe overload of 500%! Using high durability robot cable!

External dimension



Model	Deflection at rated	Natural frequency	Weight
USM-1N	0.006mm	2.7kHz	2g
USM-2N	0.007mm	3.1kHz	2g
USM-5N	0.005mm	3.8kHz	3g
USM-10N	0.011mm	3.3kHz	3g
USM-20N	0.011mm	4.1kHz	3g
USM-50N	0.023mm	4.3kHz	3g

