

## **TENSION COMPRESSION LOAD CELL**

Tension/compression type load cell

**USM** 

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

## Very compact

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





Thickness of 4mm

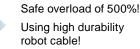
## Easy to install

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



## Great durability

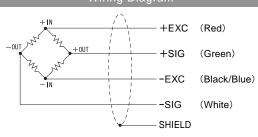
Loadcell frequently gets damaged especially in small force measurement, and cable is easily broken.



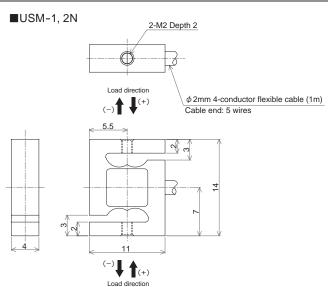
## Specifications

Model	USM-1N, 2N	USM-5, 10, 20, 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 <b>~</b> +60		°C
Safe temperature range	−20 <b>~</b> +70		°C
Temperature effect on zero	±1		%R.O./10°C
Temperature effect on span	±1		%R.O./10°C
Input resistance	Approx. 1000		Ω
Output resistance	Approx. 1000		Ω
Recommended excitation voltage	5		V(AC, DC)
Insulation resistance	1000 or more		ΜΩ
Cable	φ2mm 4-conductor flexible cable (1m)		
	Cable end: 5 wires		
Loadcell material	Aluminum alloy		
Weight	Approx. 2	Approx. 3	g
	(Excluding the cable)	(Excluding the cable)	

## Wiring Diagram



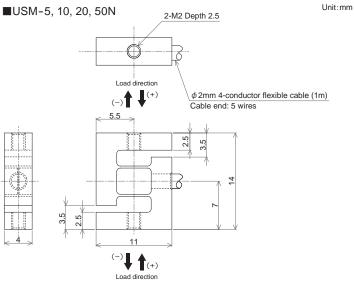
#### External dimension



Please note that specifications or designs shown in this catalog

may vary due to our continuous product improvement activities

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