

UST ULTRA THIN COMPRESSION TYPE LOAD CELL



REAL SIZE

Ultra thin load cell with a diameter of 10 mm and a height of 2.3 mm

As well as assembling to new machines,
convenient for retrofitting to existing machines

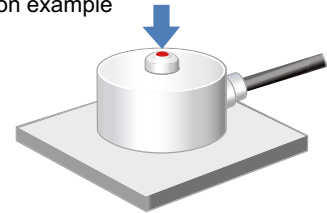
Suitable for load distribution measurement with multiple units



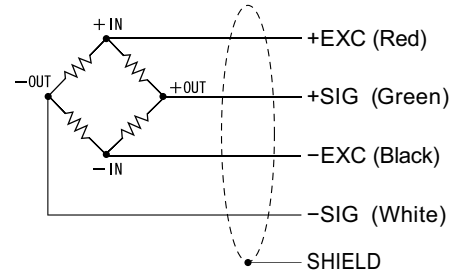
Specifications

Model	UST-50N, UST-100N, UST-200N, UST-500N
Rated capacity	50 N, 100 N, 200 N, 500 N
Rated output	Approx. 1 mV/V
Safe overload	150% R.C.
Zero balance	±20% R.O.
Non-linearity	0.7% or less R.O.
Hysteresis	0.7% or less R.O.
Repeatability	0.1% or less R.O.
Compensated temperature range	0 to +60°C
Safe temperature range	-10 to +70°C
Temperature effect on zero	1% R.O./10°C or below
Temperature effect on span	1% R.O./10°C or below
Input resistance	Approx. 350 Ω
Output resistance	Approx. 350 Ω
Recommended excitation voltage	2.5 V
Maximum excitation voltage	5 V
Insulation resistance (DC 50 V)	1000 MΩ or more
Cable	φ1.6 4-conductor shield cable 1 m, Cable end: 5 wires
Load cell material	Stainless steel
RoHS directives	2011/65/EU (EU)2015/863

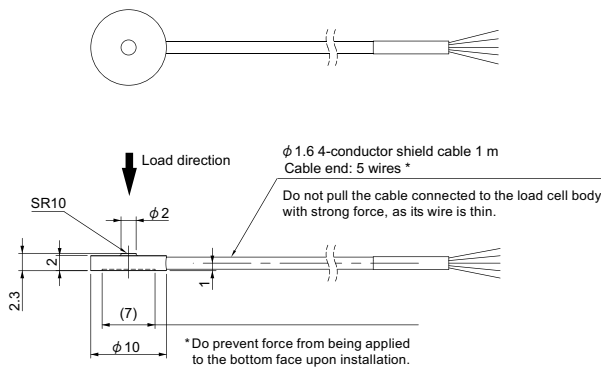
Application example



Wiring diagram



External dimension



* Connector can be attached to the cable according to your requests. Refer to 84 pages for details.

Unit: mm

Model	Deflection at rated	Natural frequency	Weight
UST-50N	0.003 mm	140 kHz	2 g
UST-100N	0.004 mm	160 kHz	2 g
UST-200N	0.004 mm	180 kHz	2 g
UST-500N	0.005 mm	180 kHz	2 g