

USLC

Compact high-capacity compression type loadcell



REAL SIZE

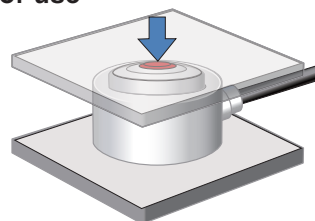
- Can measure up to 50kN with diameter of 22mm!
- Accuracy 0.3%; astounding among those compact & high-capacity load cells
- Easy & fast replacement from competitors' loadcells

Specifications

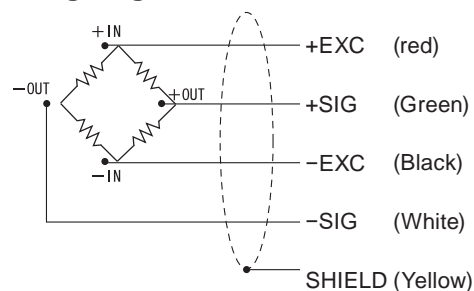
Model	USLC-50KN
Rated capacity	50kN
Rated output	Approx. 2mV/V
Safe overload	150%R.C.
Zero balance	±10%R.O.
Non-linearity	0.3% or less R.O.
Hysteresis	0.3% or less R.O.
Repeatability	0.1% or less R.O.
Compensated temperature range	-10 to +60°C
Safe temperature range	-20 to +70°C
Temperature effect on zero	0.5%R.O./10°C or below
Temperature effect on span	0.5%R.O./10°C or below
Input resistance	Approx.700Ω
Output resistance	Approx.700Ω
Recommended excitation voltage	5V
Maximum excitation voltage	10V
Insulation resistance (DC50V)	1000MΩ or more
Cable	φ2 4-conductor flexible cable (3m) Cable end: 5 wires
Loadcell material	Stainless steel

Loadcell material

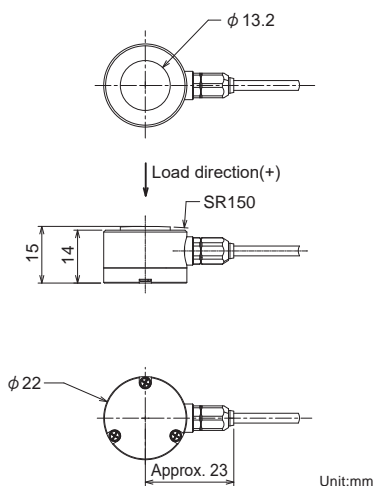
Example of use



Wiring diagram



External dimension



Model	Deflection at rated	Natural frequency	Weight
USLC-50KN	0.08mm	39kHz	40g