

USLC

COMPACT HIGH-CAPACITY COMPRESSION TYPE LOAD CELL



Can measure up to
50 kN with diameter of 22 mm, and
100 kN with diameter of 38 mm!



Flexible cable

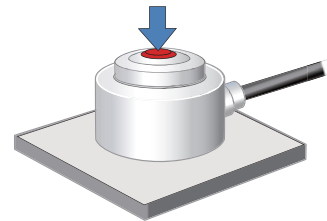
* Supported only for USLC-100KN

Specifications

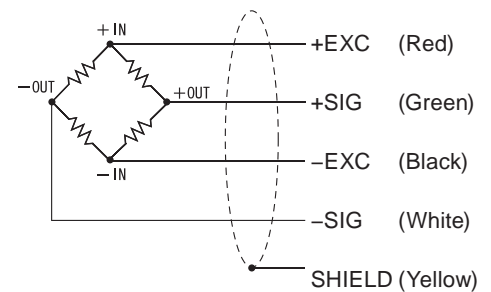
Model	USLC-50KN	USLC-100KN
Rated capacity	50 kN	100 kN
Rated output	Approx. 2mV/V	
Safe overload	150% R.C.	
Zero balance	±10% R.O.	
Non-linearity	0.5% or less R.O. Specification changed.	0.3% or less R.O.
Hysteresis	0.5% or less R.O. Specification changed.	0.3% or less R.O.
Repeatability	0.1% or less 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. 700	
Output resistance	Approx. 700	
Recommended excitation voltage	5 V	
Maximum excitation voltage	10 V	
Insulation resistance (DC 50 V)	1000 M or more	
Cable	φ2 4-conductor flexible cable 3 m Cable end: 5 wires	φ3.8 4-conductor flexible cable 3 m Cable end: 5 wires
Load cell material	Stainless steel	
RoHS directives	2011/65/EU (EU)2015/863	

* Due to the characteristics of the stainless steel being used for, it is possible that it gets rusty on its surface.
There is functionally no problem.

Application example

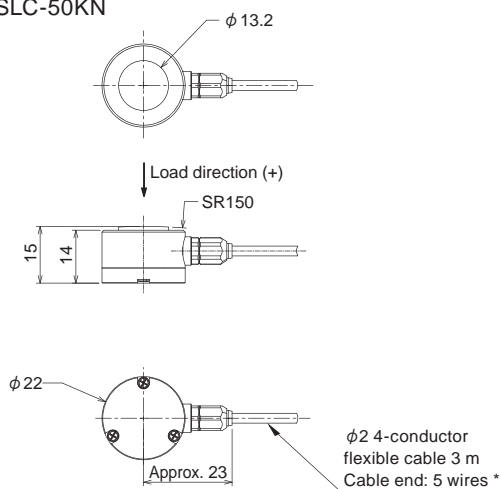


Wiring diagram

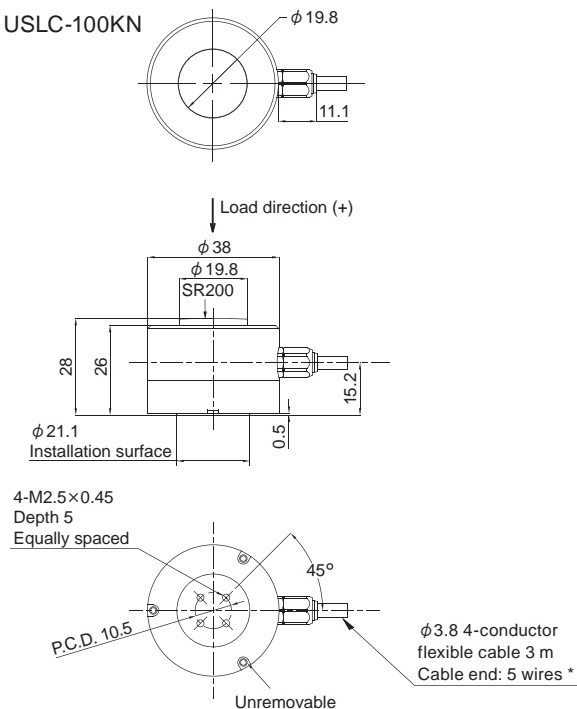


External dimension

■ USLC-50KN



■ USLC-100KN



Model	Deflection at rated	Natural frequency	Weight
USLC-50KN	0.08 mm	39 kHz	40 g
USLC-100KN	0.07 mm	16.3 kHz	210 g

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

Unit: mm