

UCC2 / UCC(HL) COMPACT HIGH-CAPACITY COMPRESSION TYPE LOAD CELL



REAL SIZE

Rated capacity of 20 kN (2 t) for this small size!

Can measure up to 20 kN with diameter of 21 mm!
Supports high/low temperature environment from -40 to +150°C (HL)



Flexible cable*

* Supported only for UCC2-10KN and 20KN

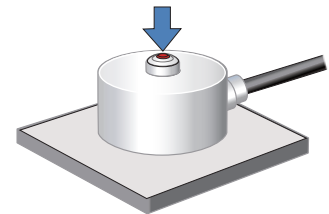
Fluorine resin cable*

* Supported only for UCC-10KN(HL) and 20KN(HL)

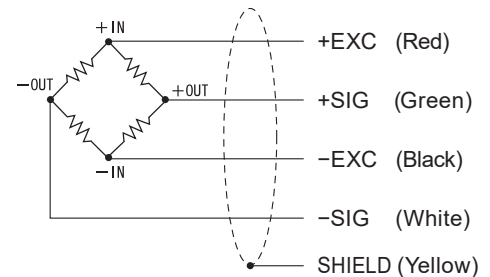
Specifications

Model	UCC2-10KN	UCC2-20KN	UCC-10KN(HL)	UCC-20KN(HL)
Rated capacity	10 kN	20 kN	10 kN	20 kN
Rated output	Approx. 1 mV/V			
Safe overload	120% R.C.			
Zero balance	±10% R.O.			
Non-linearity	0.5% or less R.O.			
Hysteresis	0.5% or less R.O.			
Repeatability	0.2% or less R.O.			
Compensated temperature range	0 to +50°C		-40 to +150°C	
Safe temperature range	-10 to +60°C		-40 to +150°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. 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	φ3 4-conductor flexible cable 3 m Cable end: 5 wires		φ2 4-conductor fluorine resin cable 3 m Cable end: 5 wires	
Load cell material	Stainless steel			
RoHS directives	2011/65/EU (EU)2015/863			

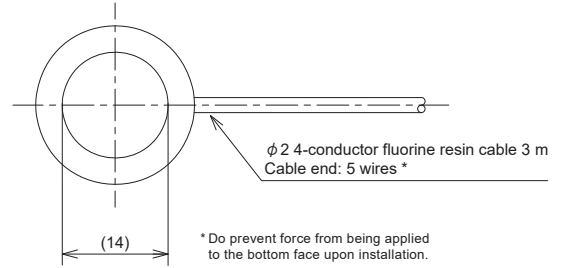
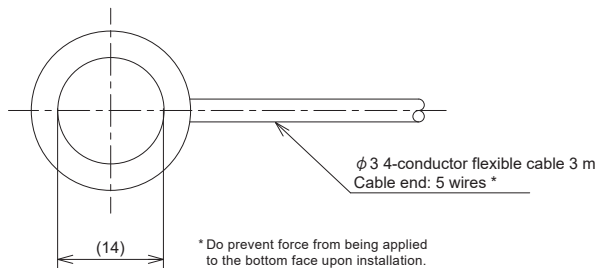
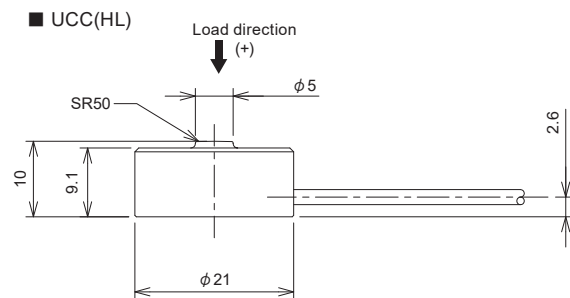
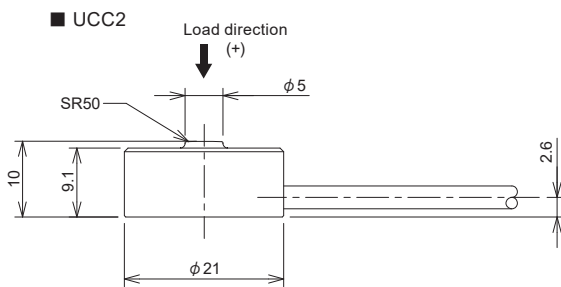
Application example



Wiring diagram



External dimension



Model	Deflection at rated	Natural frequency	Weight
UCC2-10KN	0.030 mm	54 kHz	20 g
UCC2-20KN	0.045 mm	55 kHz	
UCC-10KN(HL)	0.030 mm	54 kHz	
UCC-20KN(HL)	0.045 mm	55 kHz	

Unit: mm

* Connector can be attached to the cable according to your requests. Refer to 81 pages for details.