

# 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

**Fluorine resin cable\***

\* Supported only for UCC(HL)

**Compatible with vacuum**

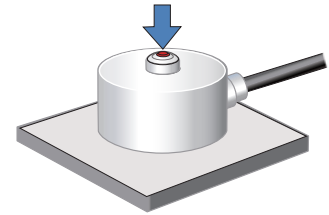
\* Supported only for UCC(HL)

## Specifications

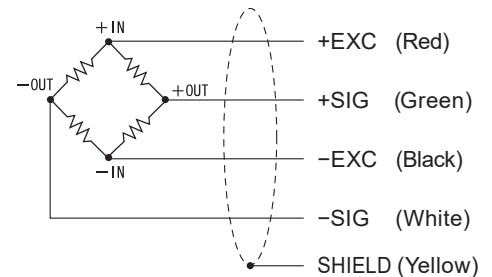
Model	UCC2-10KN	UCC2-20KN	UCC-10KN(HL)	UCC-20KN(HL)
Rated capacity	10 kN	20 kN	10 kN	20 kN
Rated output	Approx. 1 mV/V			
Safe overload	120% R.O.			
Zero balance	±10% R.O.			
Non-linearity	0.5% or less R.O.			
Hysteresis	0.5% or less R.O.			
Repeatability	0.2% or less R.O.			
Compensated temperature 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			

Contact us for the customization of vacuum compatibility.

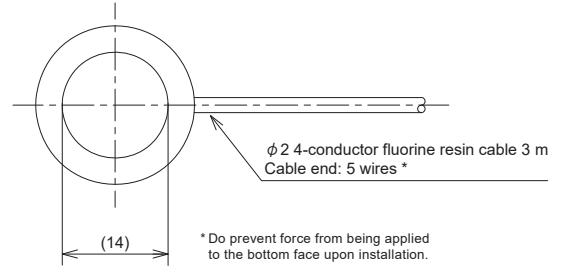
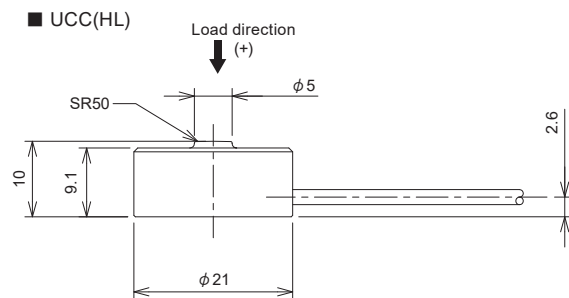
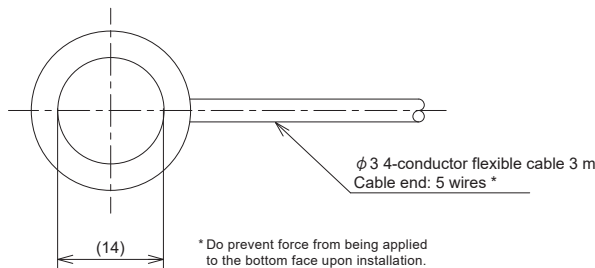
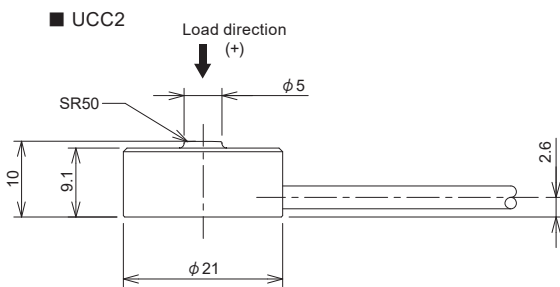
## Application example



## 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.