

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

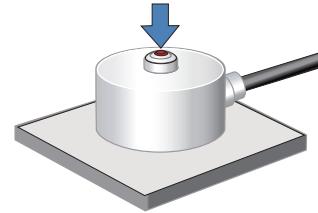
Fluorine resin cable*

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

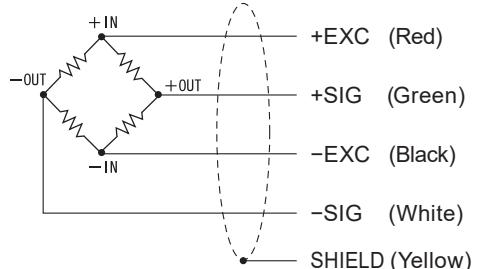
Specifications

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		

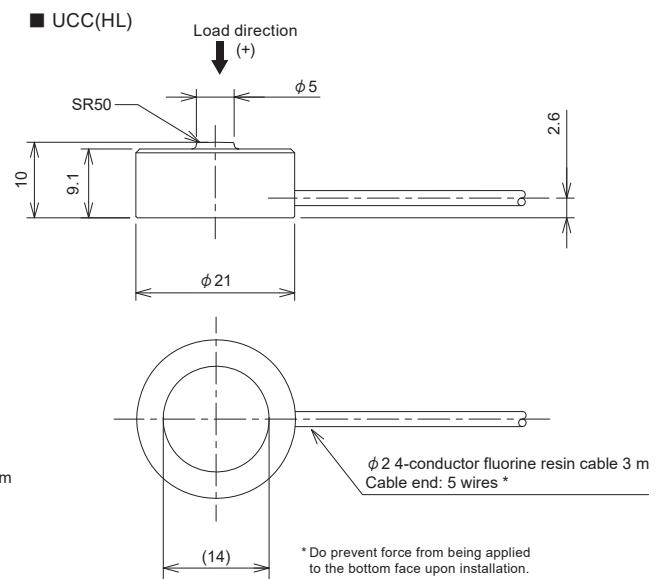
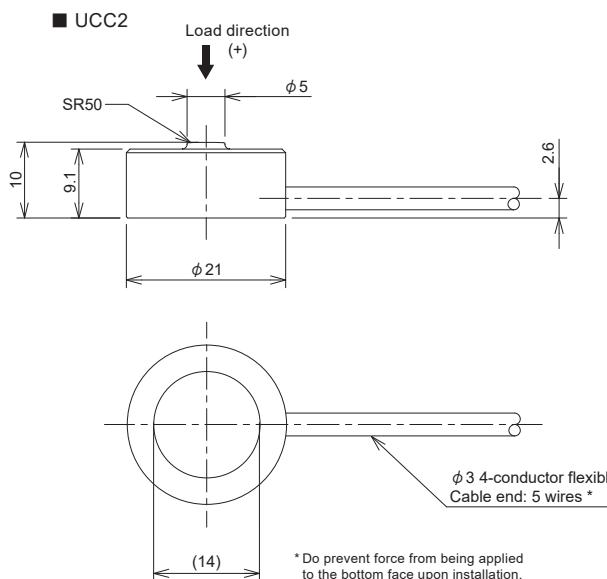
Application example



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	

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

Unit: mm