

UCC/UCC(HL)

COMPACT HIGH-CAPACITY
COMPRESSION TYPE
LOAD CELL

UCC



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
UCC-10KN and 20KN

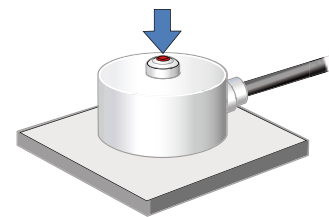
Fluorine resin cable*

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

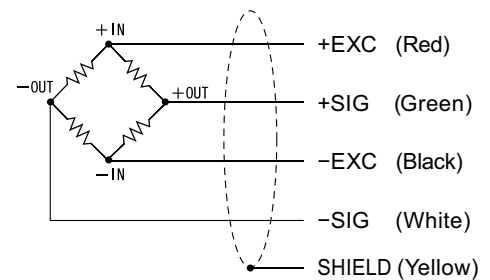
Specifications

Model	UCC-10KN	UCC-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	φ2 4-conductor flexible cable 2 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

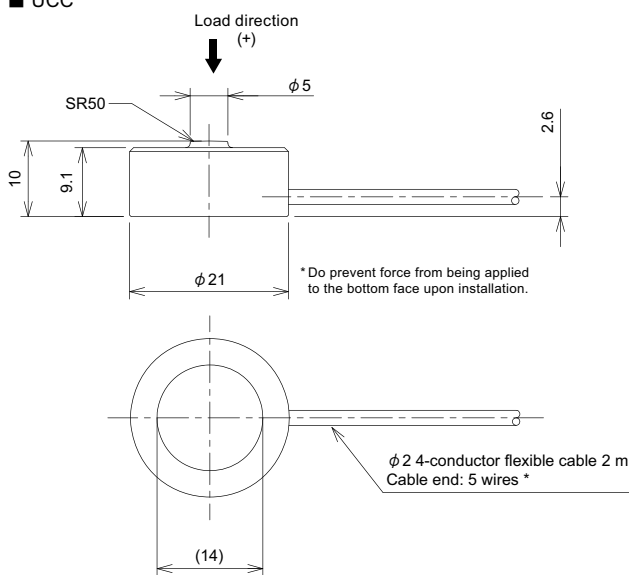


Wiring diagram

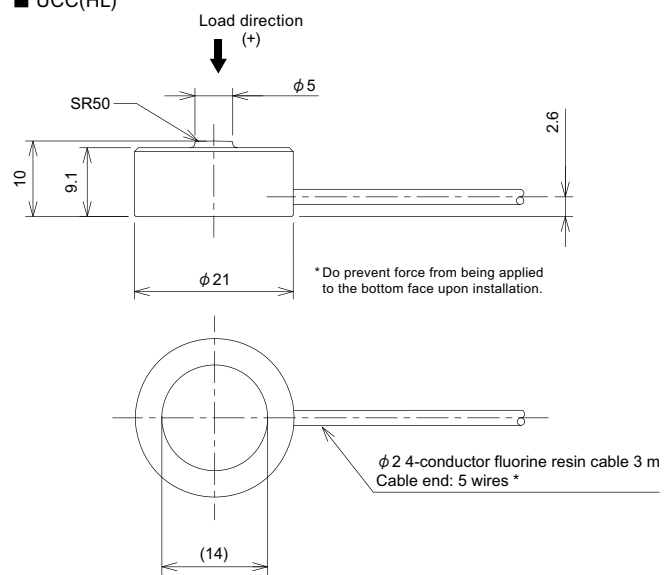


External dimension

UCC



UCC(HL)



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

Unit: mm

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