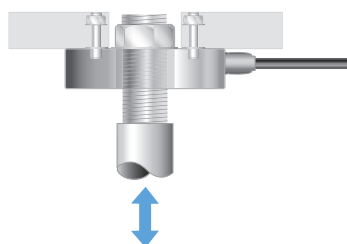




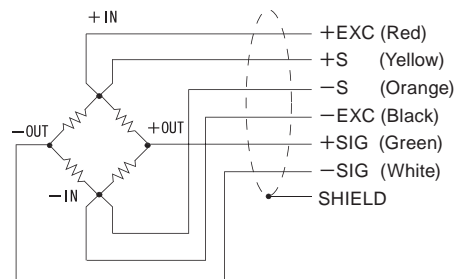
- A tapped hole cut in the center, can be used for both tension & compression.
- Suitable for assembling into press machine and compression & tension testing machine due to its low-profile body.
- A cable with a connector. Convenient for exchange.
- Can be easily installed in presses made by THK.

Application example

Capable of measuring axial force between bolt and nut as illustrated below, and is ideal for tension measurement of anchor!



Wiring diagram



Detachable cable

Flexible cable

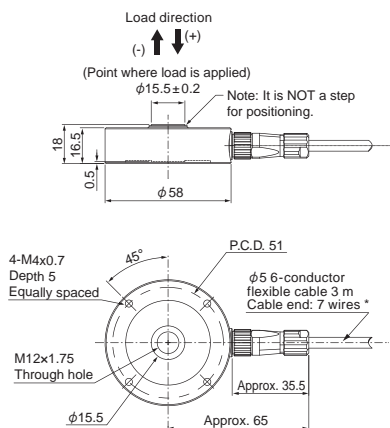
Specifications

Model	UCPI-1KN, UCPI-2KN, UCPI-5KN UCPI-10KN, UCPI-20KN	UCPI-50KN
Rated capacity	1 kN, 2 kN, 5 kN, 10 kN, 20 kN	50 kN
Rated output	Approx. 2 mV/V	
Safe overload	150% R.C.	
Zero balance	±10% R.O.	
Non-linearity	0.1% or less R.O.	0.15% or less R.O.
Hysteresis	0.1% or less R.O.	0.25% 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	0.1% R.O./10°C or below	
Temperature effect on span	0.1% R.O./10°C or below	
Input resistance	Approx. 1000	
Output resistance	Approx. 1000	
Recommended excitation voltage	10 V	
Maximum excitation voltage	15 V	
Insulation resistance (DC 50 V)	1000 M or more	
Cable	φ5 6-conductor flexible cable 3 m, Cable end: 7 wires	
Load cell material	Stainless steel	
RoHS directives	2011/65/EU (EU)2015/863	

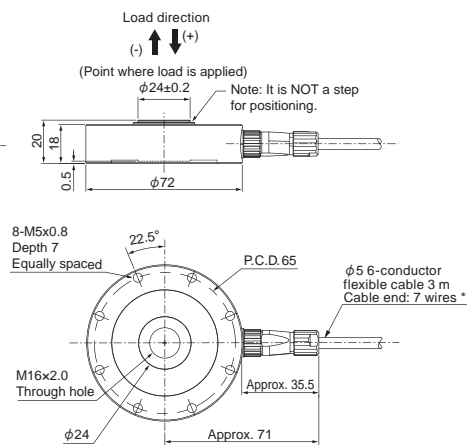
*Specification changed.

External dimension

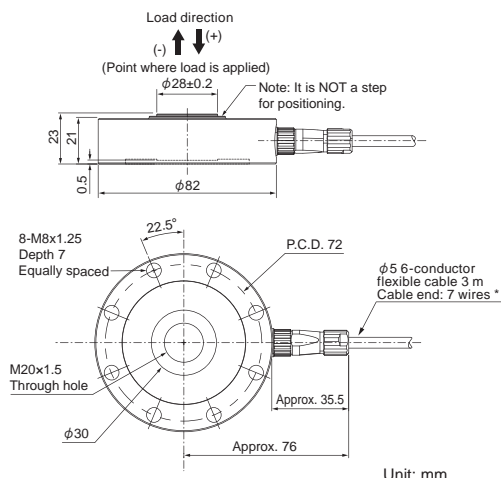
UCPI-1KN/2KN/5KN



UCPI-10KN/20KN



UCPI-50KN



Unit: mm

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

Model	Deflection at rated	Natural frequency	Weight
UCPI-1KN	0.05 mm	5 kHz	350 g
UCPI-2KN		7 kHz	
UCPI-5KN	0.06 mm	10 kHz	410 g
UCPI-10KN		13 kHz	
UCPI-20KN	0.05 mm		
UCPI-50KN	0.06 mm		630 g

Optional accessories

With the mounting flange, it is possible to mount UCPI easily to a press machine manufactured by THK.

Model	Supported product
UCPI(1-5K)-FG-PC30A	UCPI-1KN/2KN/5KN
UCPI(10-20K)-FG-PC40H	UCPI-10KN/20KN
UCPI(50K)-FG-PC60EF	UCPI-50KN

