



## Ideal for incorporating into inspection equipment of semiconductor manufacturing! Siloxane-free load cell

At a manufacturing site of semiconductors, an equipment which does not let silicone resin generate siloxane is essential.

UWR is a beam type load cell that does not generate siloxane.

Taking into account the applications around silicon wafer, the fluorine resin cable is used.



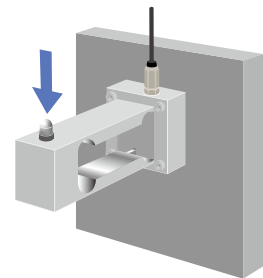
**Siloxane-Free**    **Fluorine resin cable**

### Specifications

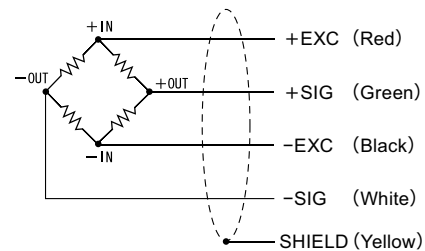
Model	UWR-10N
Rated capacity	10 N
Rated output	Approx. 0.5 mV/V
Safe overload	300% R.C.
Zero balance	±20% R.O.
Non-linearity	0.03% R.O.
Hysteresis	0.03% R.O.
Repeatability	0.02% R.O.
Compensated temperature range	0 to +50°C
Safe temperature range	-10 to +70°C
Temperature effect on zero	0.5% R.O./10°C
Temperature effect on span	0.2% R.O./10°C
Input resistance	Approx. 1000 Ω
Output resistance	Approx. 1000 Ω
Recommended excitation voltage	5 V
Insulation resistance (DC 50 V)	1000 MΩ or more
Cable	φ2 4-conductor fluorine resin cable (3 m) Cable end: 5 wires
Load cell material	Aluminum alloy
RoHS directives	2011/65/EU (EU)2015/863

### Application example

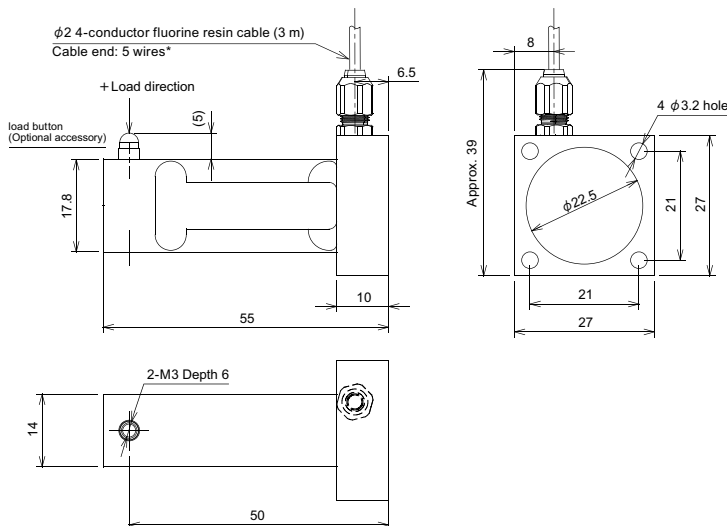
- Gripping force management in wafer transporting robot
- Pressing force management in wafer lapping machines
- Load control in chip mounters
- Pressing force management in wire bonding machines
- Adhesive force measurement of liquid, jelly etc.



### Wiring diagram



### External dimension



Unit: mm

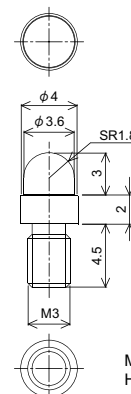
Model	Deflection at rated	Natural frequency	Weight
UWR-10N	0.04 mm	2.5 kHz	Approx. 40 g

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

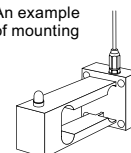
### Optional accessory

#### ■ URM-LB

A load button which helps measuring compression force.



An example of mounting



Material: Steel  
Hardness: more than HRC50