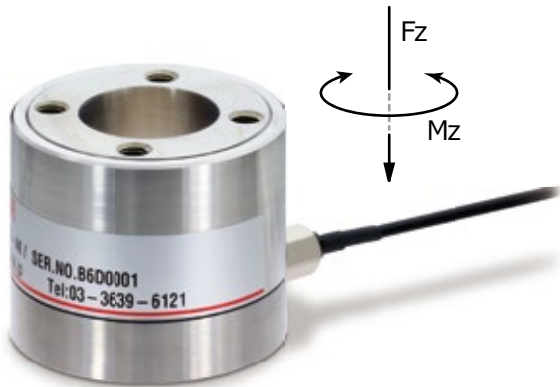
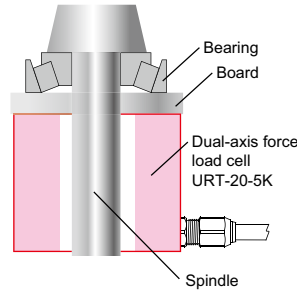


# URT-20-5K / FS200

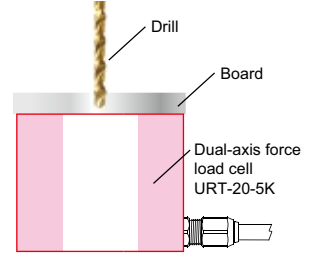
## 2-AXIS LOAD CELL



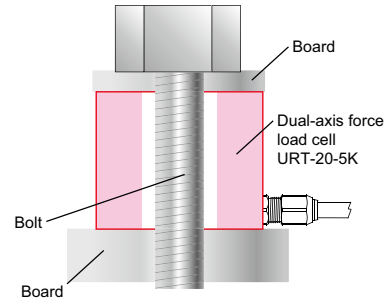
### Torque test for tapered bearing



### Cutting characteristics test for drill



### Friction measurement test for bolt head



## 2-AXIS LOAD CELL URT-20-5K

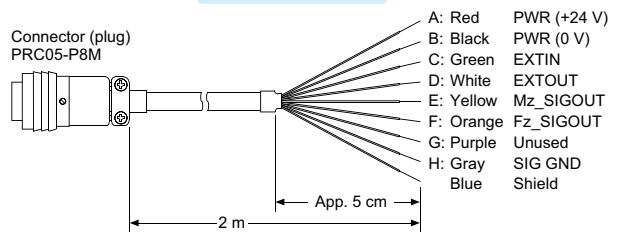
Thrust force and Torque are measured simultaneously. Phenomenal safe overload!! URT-20-5K is a 2-axis load cell having 2 kHz high-speed responsivity and high-stiffness.



## Dedicated amplifier FS200

Rated Output is adjusted at  $\pm 5$  V in both Mz and Fz direction. Just connect a sensor and apply 24 V to it, then adjusted voltage will be outputted simultaneously. Any calibration settings are not required.

### Attached cable Flexible cable



## Specifications

Model	Sensor: URT-20-5K, Amplifier: FS200
Rated capacity	Mz: $\pm 20$ N m, Fz: 5 kN
Power supply voltage	DC 24 V $\pm 15\%$
Consumption current	150 mA or less
Load signal output	Mz, Fz: $\pm 5$ V
Load resistance	2 k $\Omega$ or more
Response	2 kHz
I/O signal	Input: Auto zero command Output: Auto zero response
Safe overload	Mz: 500% FS, Fz: 400% FS
Non-linearity	Mz: 0.1% FS typ., Fz: 0.5% FS or less
Hysteresis	Mz: 0.1% FS typ., Fz: 0.5% FS or less
Repeatability	Mz: 0.1% FS typ., Fz: 0.5% FS or less
Cross talk	Mz (20 N m) $\rightarrow$ Fz: 0.05 kN or less Fz (5 kN) $\rightarrow$ Mz: 0.2 N m or less
Compensated temperature range	0 to +40°C
Safe temperature range	-10 to +50°C
Temperature effect on zero	0.1% FS/°C or below
Temperature effect on span	0.05% FS/°C or below
Sensor material	Stainless steel
Weight	Sensor: Approx. 250 g Amplifier: Approx. 180 g

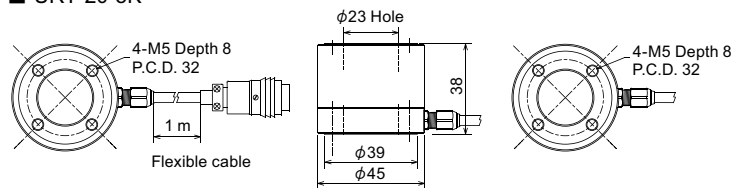
\* Above specifications are achieved when the sensor (URT-20-5K) is connected with the dedicated amplifier (FS200).

\* Accuracy is not guaranteed in the range of Fz 0 to -5 V.

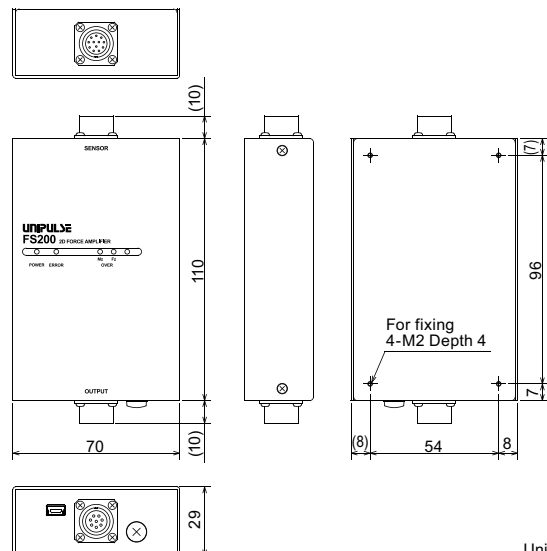
\* Please note that there are possibilities of individual differences in a color tone on display devices such as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots.

## External dimension

### URT-20-5K



### FS200



Unit: mm