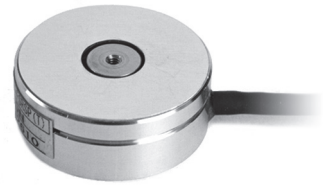




Compression/Tension Load Cell

# TU-FSRSP(T)□□N-G3 TU-FSRSP2(T)□□N-G3



## Exchangeable Load Buttons

### Exchangeable Spherical/Flat Load Buttons

Exchangeable load buttons (Spherical/Flat) allow you to apply an ideal load to the object. Third-party adapters can be attached to the tap hole. (M2 depth 2mm)

Load Buttons (included)

Robot Cable
TEDS
RoHS

(Embedded in the body) (10 substances)

### Specifications

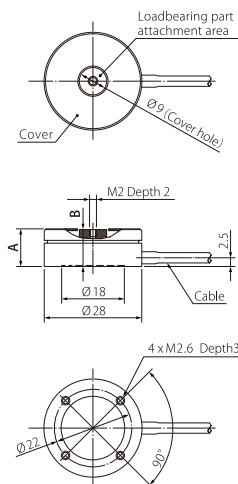
Line up	TU-FSRSP2(T)10N-G3	TU-FSRSP2(T)20N-G3	TU-FSRSP(T)50N-G3	TU-FSRSP2(T)100N-G3
Rated Capacity (R.C.)	10N	20N	50N	100N
Natural Frequency	4kHz	5.4kHz	4.9kHz	13kHz
Weight	37g	37g	15g	37g
Safe overload rating	120%			
Rated Output (R.O.)	1mV/V ±50%			
Linearity	1% R.O.			
Hysteresis	1% R.O.			
Repeatability	0.5% R.O.			
Safe Excitation Voltage	5V			
Zero Balance	±30% R.O.			
Input Terminal Resistance	350 ±20Ω		470Ω ±30%	350 ±20Ω
Output Terminal Resistance	350 ±20Ω		470Ω ±30%	350 ±20Ω
Insulation Resistance	1000Ω or more (DC 50V)			
Compensated Temperature Range	5 to 40°C (no condensation)			
Permissible Temperature Range	0 to 50°C (no condensation)			
Temperature Effect on Zero Balance	2% R.O. / 10°C			
Temperature Effect on Output	1% R.C. / 10°C			
Cable	Φ3, 6-core shielded, 3m direct connection robot cable with bare lead wires			
Body Material	Stainless Steel		Aluminum ※	Stainless Steel
Included Accessories	Load Buttons x 2 (Spherical x 1, Flat x 1)			

※Contains Stainless Steel and Steel parts in the body

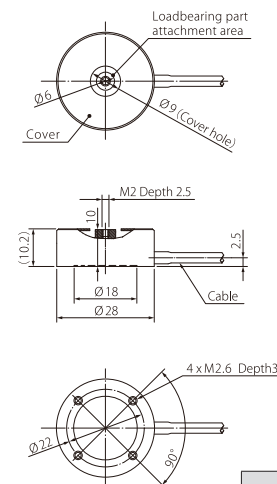
### Dimensional drawings

(Units: mm)

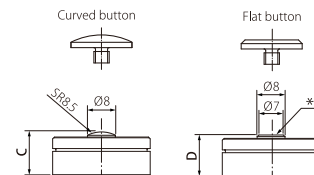
#### TU-FSRSP(T)□□N-G3



#### TU-FSRSP2(T)□□N-G3



#### Accessory Load buttons



\* When using a flat load button, use it so that the load is equally distributed within a Ø7mm range.

Model No.	A	B	C	D
TU-FSRSP2(T)10N-G3	10.2	10	11.7	11.2
TU-FSRSP2(T)20N-G3	10.2	10	11.7	11.2
TU-FSRSP(T)50N-G3	10.7	10.5	12.2	11.7
TU-FSRSP2(T)100N-G3	10.2	10	11.7	11.2



- 1000kN
- 500kN
- 300kN
- 200kN
- 100kN
- 49k, 50kN
- 30kN
- 19.6k, 20kN
- 9.8k, 10kN
- 4.9k, 5kN
- 2.94k, 3kN
- 1.96k, 2kN
- 980, 1kN
- 490, 500N
- 196, 200N
- 98, 100N
- 49, 50N
- 19.6, 20N
- 9.8, 10N
- 4.9, 5N
- 2N
- 1N
- 0.5N