

Model TR Series

Tension Canister Load Cell (50kg ~ 20t)
Canister Type



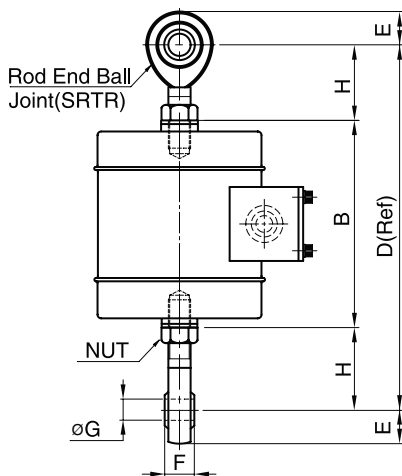
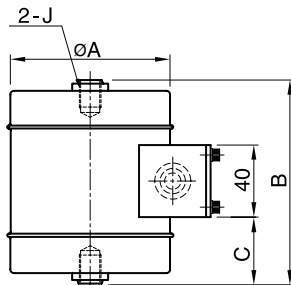
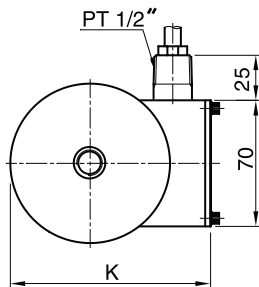
The TR series load cells are designed for measuring tensile loads up to 20 tonnes are particularly suited for industrial application where optimum precision is needed. Featuring high-alloy tool steel construction for excellent repeatability, the unique element design provides high rated output (3mV/V) with low deflection. It is recommended that the load cell should incorporate rod end ball joint assemblies to reduce the overall length.

- Hermetically sealed
- Robust high capacity design
- High rated output (3mV/V)



SPECIFICATIONS

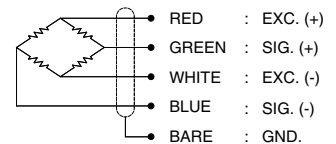
MODEL	TRU	TRC	TRD
Rated capacity (R.C.)	50, 100, 200, 300, 500kg 1, 2, 3, 5, 10, 20ton		
Rated output(R.O.)	3.0mV/V ± 0.1%		3.0mV/V ± 0.2%
Non-linearity	≤0.02% R.O.	≤0.05% R.O.	≤0.1% R.O.
Hysteresis	≤0.02% R.O.		
Non-repeatability	≤0.02% R.O.		
Creep error	≤0.02% in 20min.		≤0.1% in 20min.
Zero balance	≤1% R.O.		
Compensated temperature range	-10 ~ 70°C		
Operating temperature range	-20 ~ 80°C		
Temp. effect on rated output	≤0.03% LOAD/10°C		≤0.05% LOAD/10°C
Temp. effect on zero balance	≤0.03% R.O./10°C		≤0.05% R.O./10°C
Terminal input resistance	350 Ohms ± 3.5 Ohms		
Terminal output resistance	350 Ohms ± 5 Ohms		
Insulation resistance (Min.)	5000 MOhms at 50V DC		2000 MOhms at 50V DC
Excitation voltage	10V(Recommended), 15V(Max.)		
Electrical connection	∅9mmx5m(22AWG x 4Core Shielded)		
Protection class	meets IP 67		
Safe overload	150% R.C		
Ultimate overload	300% R.C		



ORDERING INFORMATION

TRU	-	5T
MODEL		CAPACITY
TRU		50, 100, 200,
TRC		300, 500kg
TRD		1, 2, 3, 5, 10, 20ton

WIRING INFORMATION



Dimension-mm

Rated Capacity	A	B	C	D	E	F	G	H	J	K	Rod End Ball Joints	Weight(kg)
50~300kg(490.3~2942N)	88	110	35	192	16	16	12	41	M12 x 1.25 Depth 13	112	SRTR1	2.8
500~1000kg(4.903~9.807kN)		106	33	188								
2~5t (19.61~49.03kN)	88	145	52.5	255	32	28	22	55	M24 x 2 Depth 30	112	SRTR2	4.5
10t (98.07kN)	138	210	70	430	50	43	40	110	M39 x 2 Depth 50	171	SRTR3	12.5
20t (196.1kN)	164	283	120	513	60	53	50	115	M50 x 2 Depth 65	199	SRTR4	27.4

* Specifications are subject to change without notice

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