

Corrosion-resistant Compression Load Cell



*TEDS-installed models are available. Inquiries are welcome.

Suited for weighing in food processing or where they are exposed to corrosive liquid and gas.

- Corrosion-resistant
- Hermetically-sealed structure with inert gas filled in
- High overload rating (400%)

The hermetically-sealed stainless steel structure with inert gas filled in enables use for weighing in food processing or where they are exposed to corrosive liquid and gas. The high overload rating minimizes the ratio of breakdown due to overload.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.5\%$ RO
Hysteresis	Within $\pm 0.5\%$ RO
Repeatability	0.1% RO or less
Rated Output	1 mV/V $\pm 0.2\%$

Environmental Characteristics

Safe Temperature	-35 to 80°C
Compensated Temperature	-10 to 70°C
Temperature Effect on Zero	Within $\pm 0.005\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.005\%$ /°C

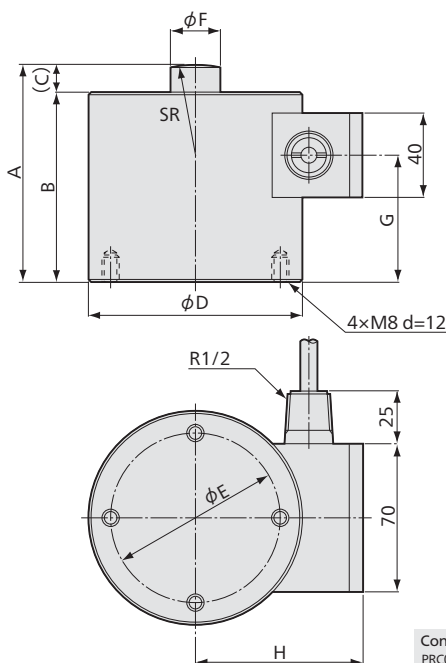
Electrical Characteristics

Safe Excitation	20 V AC or DC
Recommended Excitation	1 to 12 V AC or DC
Input Resistance	350 $\Omega \pm 0.5\%$
Output Resistance	350 $\Omega \pm 0.5\%$
Cable	4-conductor (0.3 mm ²) chloroprene shielded cable, 7.6 mm diameter by 5 m long, terminated with a connector plug PRC03-12A10-7M (Shield wire is connected to the case.)

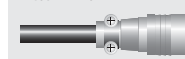
Mechanical Properties

Safe Overloads	400%
Natural Frequencies	See table below.
Weight	See table below.

Dimensions



Connector plug
PRC03-12A10-7M



Models	Rated Capacity	Natural Frequencies (Approx.)	A	B	C	ϕD	ϕE	ϕF	G	H	SR	Weight* (Approx.)
●LC-500KJ	5 kN	5.2 kHz	103	90	13	100	80	24	60	77	50	3 kg
●LC-1TJ	10 kN	6 kHz									70	
●LC-2TJ	20 kN	5.8 kHz									100	
●LC-5TJ	50 kN	5.7 kHz									130	
●LC-10TJ	100 kN	5.5 kHz	110	95	15	120	90	36	80	90	100	5 kg
●LC-20TJ	200 kN	6 kHz	135	115	20			46			130	6 kg

●For delivery date, please contact us.

*Excluding cable



Load Cells
(Load Transducers)

Outline

Compressive

Tensile

Tensile & compressive

Component

Special

Other