

General-purpose Compression Load Cell



*Watertight type (IEC 60529) is also available.
*TEDS-installed versions can be manufactured. Inquiries are welcome.

High Stability Hermetically Sealed Structure with Inert Gas Filled in.

Inert gas is filled in the detector portion, thereby preventing aging deterioration and ensuring a stable and reliable operation.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.5\%$ RO
Hysteresis	Within $\pm 0.2\%$ RO
Repeatability	0.1% RO or less
Rated Output	2 mV/V (4000 $\mu\text{m/m}$) $\pm 1\%$

Environmental Characteristics

Safe Temperature Range	-30 to 85°C
Compensated Temperature Range	-10 to 70°C
Temperature Effect on Zero Balance	Within $\pm 0.005\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.005\%$ /°C

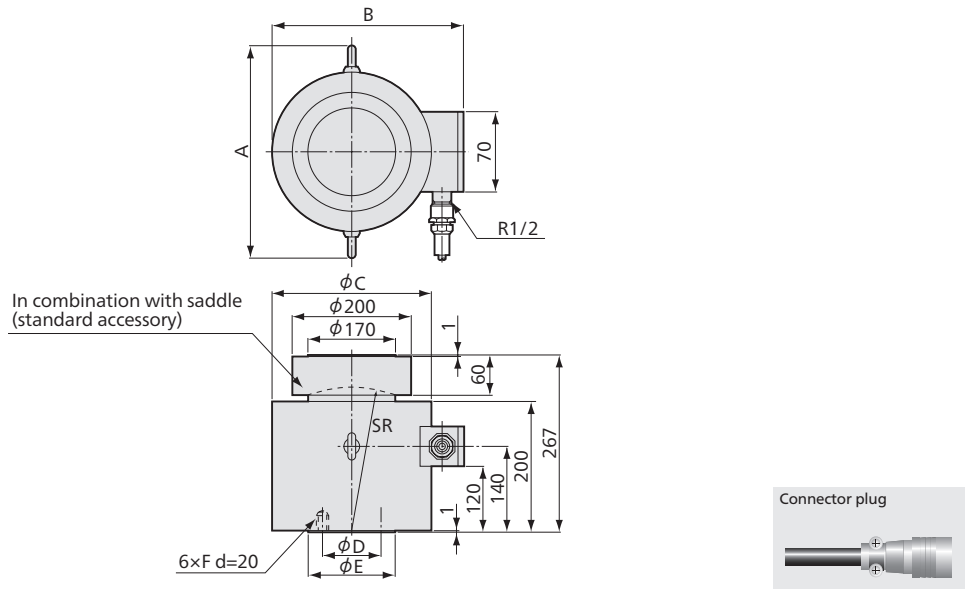
Electrical Characteristics

Safe Excitation Voltage	20 V AC or DC
Recommended Excitation Voltage	1 to 10 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 (Shield wire is connected to mainframe.)

Mechanical Properties

Safe Overload Rating	150%
Natural Frequencies	See table below.
Weight	See table below.

Dimensions



Models	Rated Capacity	Natural Frequencies (Approx.)	A	B	ϕC	ϕD	ϕE	F	SR	Weight (Approx.)*
LC-200TE	2 MN	3.5 kHz	310	246	210	90	135	M14	180	49 kg
LC-500TE	5 MN	4 kHz	340	277	240	130	170	M16	230	65 kg

*Excluding cable

● Physical quantity indication ● Static measurement ● Dynamic measurement

LC-E Recommended products for combination

- Instrumentation Amplifier WGA-900A → 3-95
- Data Logger UCAM-60B → 3-25
- Strain Amplifier DPM-900 Series → 3-5
- Universal Recorder EDX-200A → 3-55
- Universal Recorder EDX-100A → 3-63
- Sensor Interface PCD-400A → 3-77