

LCW-D-S/E-S

Washer-type Load Cell

- For Rolling & Depressing Pressure Measurement under Harsh Environment
- 1 MN to 5 MN



Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO
Hysteresis	Within $\pm 1\%$ RO
Repeatability	0.3% RO or less
Rated Output	1 mV/V or more

Environmental Characteristics

Safe Temperature	-20 to 100°C
Compensated Temperature	-10 to 80°C
Temperature Effect on Zero	Within $\pm 0.01\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.01\%$ /°C

Electrical Characteristics

Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω $\pm 1\%$
Output Resistance	350 Ω $\pm 1\%$
Cable	4-conductor (0.75 mm ²) fluonlex shielded cable, 8 mm diameter by 15 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

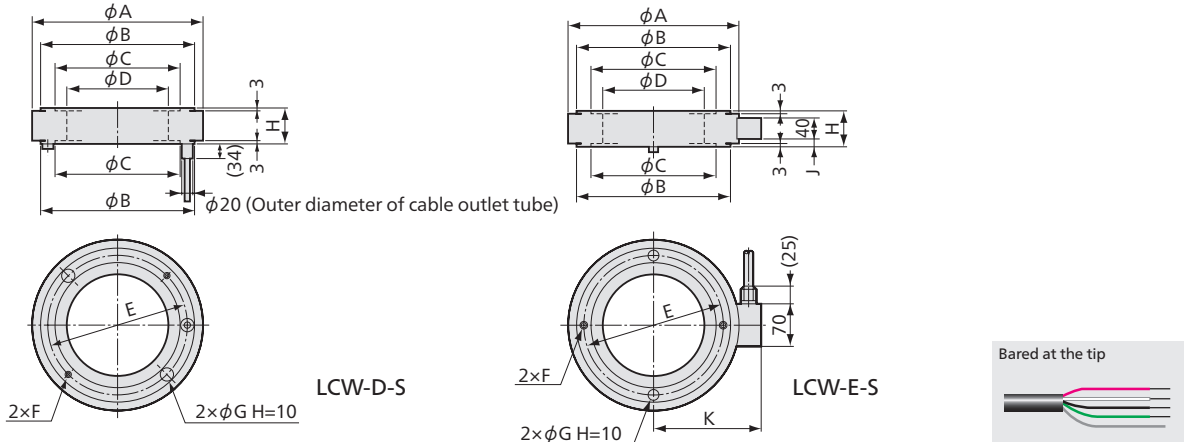
Safe Overloads	150%
Natural Frequencies	See table below.
Weight	See table below.
Degree of Protection	IP64 (IEC 60529)

The Flat Washer-type Structure of Load Cell Well Suited to Rolling Mills.

- Hermetically-sealed structure with inert gas filled in
- Heat and oil resistant cable.
- High reliability

The hermetically-sealed structure with inert gas filled in ensures a reliable and stable operation under harsh conditions. The flat washer type structure only requires processing of the screw nuts for installation to existing rolling mills.

Dimensions



Models	Rated Capacity	Natural Frequencies (Approx.)	ϕA	ϕB	ϕC	ϕD	E	F	ϕG	H	J	K	Weight*
LCW-D-1MNS	1 MN	16 kHz	241	202	178	140	190	M8 d=8	8	64	—	—	≈ 7 kg
LCW-D-2MNS	2 MN	14 kHz	355	307	277	230	292	M10 d=10	12	70	—	—	≈ 15 kg
LCW-D-3MNS	3 MN	15 kHz	355	314	270	230	292	M10 d=12	20	70	—	—	≈ 17 kg
LCW-D-5MNS	5 MN	16 kHz	355	312	252	210	282	M10 d=12	20	70	—	—	≈ 20 kg
LCW-E-1MNS	1 MN	16 kHz	241	202	178	140	190	M8 d=8	8	64	16	154	≈ 7 kg
LCW-E-2MNS	2 MN	14 kHz	355	307	277	230	292	M10 d=10	12	70	18	212	≈ 15 kg
LCW-E-3MNS	3 MN	15 kHz	355	314	270	230	292	M10 d=12	20	70	18	212	≈ 17 kg
LCW-E-5MNS	5 MN	16 kHz	355	312	252	210	282	M10 d=12	20	70	18	212	≈ 20 kg

*Excluding cable

Physical quantity indication

LCW-D-S/E-S Recommended products for combination

Instrumentation Amplifier
WGA-900A
→ 3-95

Instrumentation Amplifier
WGA-680A
→ 3-97

Instrumentation Amplifier
WGA-100B
→ 3-108

4-Channel Signal Conditioner
WGC-140A
→ 3-110

Measuring Instrument Controller
WDC-810C1
→ 3-114

