

LCW-C-SA3

Washer-type Load Cell



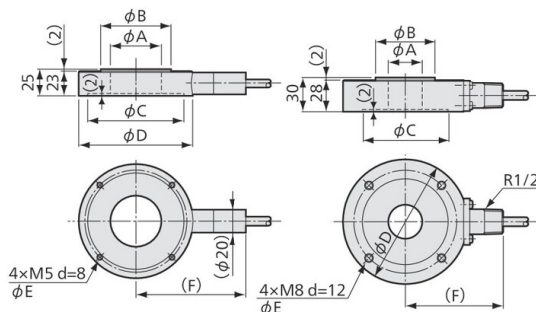
*Figure is LCW-C-200KN70SA3.

Different diameters available at same capacity

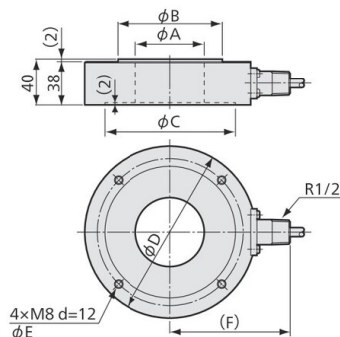
- Rated capacity: 10 to 300 kN
- Wide capacity range
- Widely applied in bolt tension control and press forming equipment.

Washer type load cells with an extremely simple structure for easier handling and maintenance.

■ Dimensions



LCW-C-10, 20KNSA3 LCW-C-50, 100KNSA3



LCW-C-200, 300KNSA3

Specifications

Performance	
Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO
Hysteresis	Within $\pm 1\%$ RO
Rated Output	Approx. 1 mV/V
Environmental Characteristics	
Safe Temperature	-35 to 80°C
Compensated Temperature	-10 to 70°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 $\Omega \pm 1\%$
Output Resistance	350 $\Omega \pm 1\%$
Cable	4-conductor (0.3 mm ²) chloroprene shielded cable, 7.6 mm diameter by 5 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	150%
Weight	See table below.

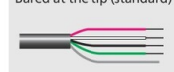
■ Models

Model	Rated Capacity	φA	φB	φC	φD	φE	(F)	Weight (Approx.) [*]
LCW-C-10KN25SA3	10 kN	25	42	64	80	70	87	0.6 kg
LCW-C-10KN35SA3		35	52	74	90	80	92	0.7 kg
LCW-C-10KN45SA3		45	62	84	100	90	97	0.8 kg
LCW-C-10KN55SA3		55	72	94	110	100	102	0.9 kg
LCW-C-10KN65SA3		65	82	104	120	110	107	1.0 kg
LCW-C-20KN25SA3	20 kN	25	42	64	80	70	87	0.6 kg
LCW-C-20KN35SA3		35	52	74	90	80	92	0.7 kg
LCW-C-20KN45SA3		45	62	84	100	90	97	0.8 kg
LCW-C-20KN55SA3		55	72	94	110	100	102	0.9 kg
LCW-C-20KN65SA3		65	82	104	120	110	107	1.0 kg
LCW-C-50KN30SA3	50 kN	30	52	74	108	90	85	1.7 kg
LCW-C-50KN40SA3		40	62	84	118	100	90	1.9 kg
LCW-C-50KN50SA3		50	72	94	128	110	95	2.1 kg
LCW-C-50KN60SA3		60	82	104	138	120	100	2.3 kg
LCW-C-50KN70SA3		70	92	114	148	130	105	2.5 kg
LCW-C-100KN30SA3	100 kN	80	102	124	158	140	110	2.7 kg
LCW-C-100KN40SA3		30	52	74	108	90	85	1.7 kg
LCW-C-100KN50SA3		40	62	84	118	100	90	1.9 kg
LCW-C-100KN60SA3		50	72	94	128	110	95	2.1 kg
LCW-C-100KN70SA3		60	82	104	138	120	100	2.3 kg
LCW-C-200KN60SA3	200 kN	70	92	114	148	130	105	2.5 kg
LCW-C-200KN70SA3		80	102	124	158	140	110	2.7 kg
LCW-C-200KN80SA3		60	92	114	148	130	105	3.7 kg
LCW-C-200KN90SA3		70	102	124	158	140	110	4.1 kg
LCW-C-200KN100SA3		80	112	134	168	150	115	4.4 kg
LCW-C-300KN60SA3	300 kN	90	122	144	178	160	121	4.8 kg
LCW-C-300KN70SA3		100	132	154	188	170	126	5.1 kg
LCW-C-300KN80SA3		60	92	114	148	130	105	3.7 kg
LCW-C-300KN90SA3		70	102	124	158	140	110	4.1 kg
LCW-C-300KN100SA3		80	112	134	168	150	115	4.4 kg
LCW-C-300KN100SA3	300 kN	90	122	144	178	160	121	4.8 kg
LCW-C-300KN100SA3		100	132	154	188	170	126	5.1 kg

*1 Excluding cable

*High-temperature models (up to 150°C) are available. Please contact us.

Bared at the tip (standard)



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Sensor



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor