

COMPACT LOW PROFILE LOAD CELL

Model LR-2

- Capacities from 1.5 to 9000 kN
- Accuracy to 0.05%
- Compact size
- Eccentric load compensated
- Low deflection
- Tension and compression
- Principle of high-precision electronic strain gauges

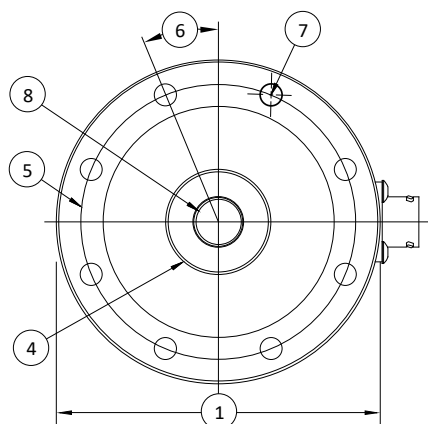
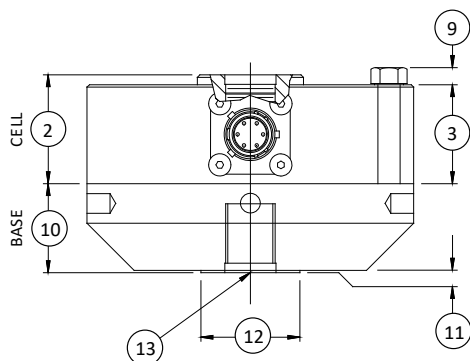


SPECIFICATIONS

CAPACITY	1.5, 2.5, 5, 10kN	25, 50kN	100, 250kN	450kN
Nonlinearity	±0.05%FS	±0.05%FS	±0.05%FS	±0.05%FS
Hysteresis	±0.05%FS	±0.05%FS	±0.05%FS	±0.05%FS
Non-repeatability	±0.05%RO	±0.05%RO	±0.05%RO	±0.05%RO
Compensated Range	-10~45℃	-10~45℃	-10~45℃	-10~45℃
Operating Range	-30~70℃	-30~70℃	-30~70℃	-30~70℃
Effect on Zero	±0.005%RO/℃	±0.005%RO/℃	±0.005%RO/℃	±0.005%RO/℃
Rated Output	2.0mV/V	2.0mV/V	2.0mV/V	2.0mV/V
Excitation Voltage	15VDC	15VDC	15VDC	15VDC
Bridge Resistance	700Ω	700Ω	700Ω	700Ω
Zero Balance	±3.0%RO	±3.0%RO	±3.0%RO	±3.0%RO
Insulation Resistance	≥2000MΩ	≥2000MΩ	≥2000MΩ	≥2000MΩ
Safe Overload	±150%CAP	±150%CAP	±150%CAP	±150%CAP
Optional Base	B	B	B	B
Connector	ACK	ACK	ACK	ACK
Calibration	Tension & Compression	Tension & Compression	Tension & Compression	Tension & Compression
Material	Aluminum	Alloy Steel	Alloy Steel	Alloy Steel

CAPACITY	900kN	1200kN	1800kN	2700kN	4500kN	9000kN
Nonlinearity	±0.07%FS	±0.08%FS	±0.10%FS	±0.12%FS	±0.15%FS	±0.20%FS
Hysteresis	±0.07%FS	±0.08%FS	±0.10%FS	±0.12%FS	±0.15%FS	±0.20%FS
Non-repeatability	±0.01%RO	±0.02%RO	±0.02%RO	±0.02%RO	±0.02%RO	±0.02%RO
Compensated Range	-20~70℃	-20~70℃	-20~70℃	-20~70℃	-20~70℃	-20~70℃
Operating Range	-30~70℃	-30~70℃	-30~70℃	-30~70℃	-30~70℃	-30~70℃
Effect on Zero	±0.005%RO/℃	±0.005%RO/℃	±0.005%RO/℃	±0.005%RO/℃	±0.005%RO/℃	±0.005%RO/℃
Rated Output	2.0mv/V	2.0mv/V	2.0mv/V	2.0mv/V	2.0mv/V	2.0mv/V
Excitation Voltage	15VDC	15VDC	15VDC	15VDC	15VDC	15VDC
Bridge Resistance	700Ω	700Ω	700Ω	700Ω	700Ω	700Ω
Zero Balance	±3.0%RO	±3.0%RO	±3.0%RO	±3.0%RO	±3.0%RO	±3.0%RO
Insulation Resistance	≥2000MΩ	≥2000MΩ	≥2000MΩ	≥2000MΩ	≥2000MΩ	≥2000MΩ
Safe Overload	±150%CAP	±150%CAP	±150%CAP	±150%CAP	±150%CAP	±150%CAP
Optional Base	B	B	B	B	B	B
Connector	ACK	ACK	ACK	ACK	ACK	ACK
Calibration	Tension & Compression					
Material	Alloy Steel					

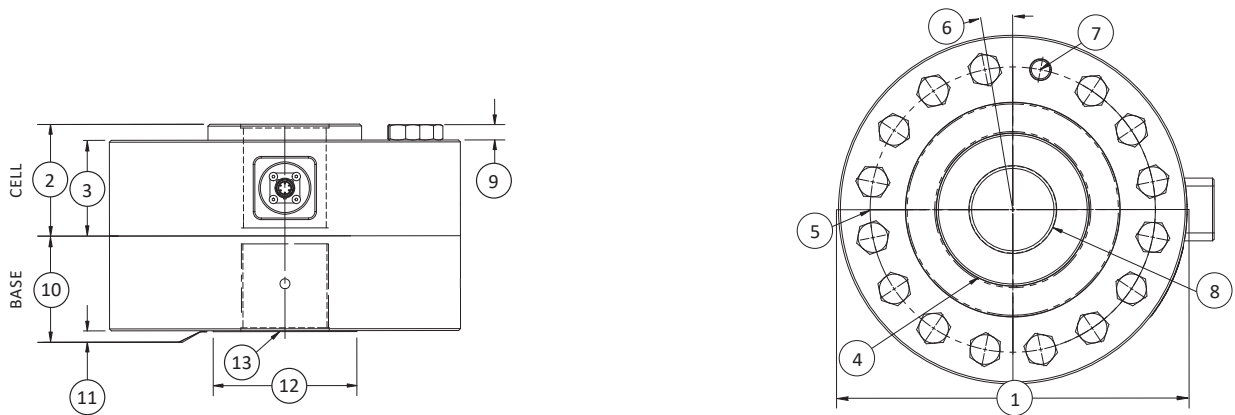
DIMENSIONS TABLE



unit: mm

CAPACITY	1.5, 2.5, 5, 10kN	25, 50kN	100, 250kN	450kN
1	φ104.8	φ104.8	φ153.9	φ203.2
2	34.9	34.9	44.5	63.5
3	31.7	31.7	41.4	57.2
4	φ34.0	φ34.0	φ67.3	φ95.2
5	φ88.9	φ88.9	φ130.3	φ165.1
6	22.5°	22.5°	15°	11.25°
7	8-φ7.1	8-φ7.1	12-φ10.4	16-φ13.5
8	M16x2-4H I28.4	M16x2-4H I28.4	M33x2-4H I35.6	M42x2-4H I54.6
9	5.1	5.1	7.6	10.2
10	28.6	28.6	44.5	50.8
11	0.8	0.8	0.8	0.8
12	φ31.8	φ31.8	φ57.2	φ76.2
13	M16x2-4H I22.1	M16x2-4H I22.1	M33x2-4H I35.6	M42x2-4H I44.5

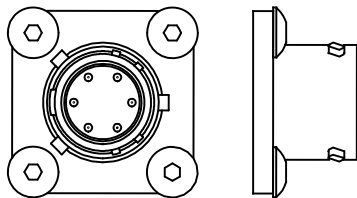
DIMENSIONS TABLE



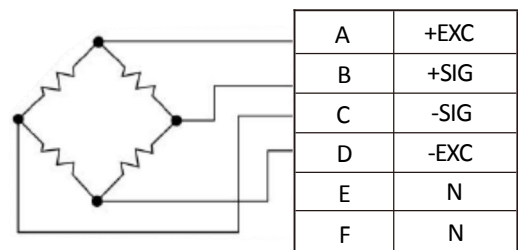
unit: mm

CAPACITY	900kN	1200kN	1800kN	2700kN	4500kN	9000kN
1	φ279.0	φ279.0	φ304.8	φ393.7	φ520.7	φ660.4
2	88.9	101.6	114.3	139.7	158.8	196.9
3	76.2	82.6	108.0	127.0	152.4	190.5
4	φ122.2	φ122.2	φ144.3	φ196.3	φ267.9	φ350.3
5	φ228.6	φ222.2	φ250.8	φ322.1	φ419.1	φ520.7
6	11.25°	11.25°	9.00°	7.50°	6.43°	5.63°
7	16-φ16.5	16-φ20.1	20-φ21.0	24-φ23.9	28-φ27.0	32-φ33.3
8	M72x2-4H↓70.0	M72x2-4H↓95.3	M90x3-4H↓104.9	M120x4-4H↓108.0	M150x4-4H↓143.0	M200x4-4H↓178.0
9	12.7	12.7	15	17.5	25.4	31.3
10	76.2	101.6	114.3	127.0	177.8	228.6
11	0.8	0.8	0.8	0.8	0.8	2.5
12	φ114.3	φ114.3	φ152.4	φ196.9	φ267.9	φ355.6
13	M72x2-4H↓69.8	M72x2-4H↓69.8	M90x3-4H↓95.3	M120x4-4H↓108.0	M150x4-4H↓162.0	M200x4-4H↓184.0

WIRING CODES



ACK BAYONET CONNECTOR



Cable length: 3 meters.