Compact and Lightweight Nonlinearity 1/3333 Large Output Usable also for Compression Load Measurement

• Extra calibration and patch are required.





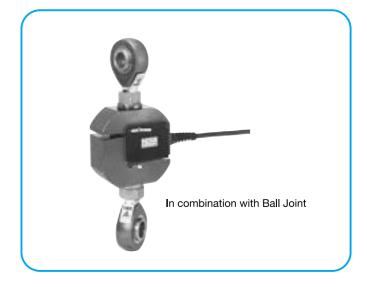


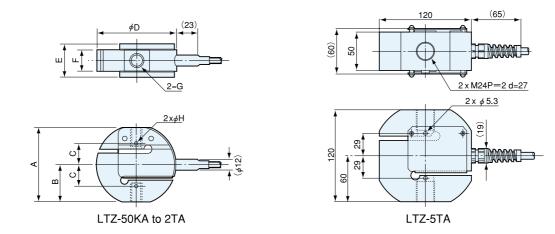
The LTZ-A series load cells adopt a Roberval's mechanism to ensure 1/3333 accuracy and easy handling and maintenance. Since they can be installed with less burden to existing facilities, they are used as compact, lightweight load cells with excellent cost performance for weighing or testing systems in various fields.

Specifications

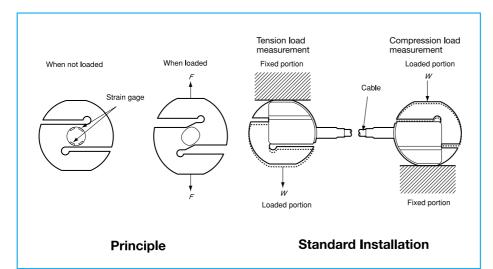
opeomodione	
Performance	
Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.03\%$ RO (500KA to 5TA: Within $\pm 0.05\%$ RO)
Hysteresis	Within $\pm 0.03\%$ RO (500KA to 5TA: Within $\pm 0.05\%$ RO)
Repeatability	0.03% RO or less
Rated Output	3 mV/V (6000 μm/m) ±0.2%
Environmental Capab	pility
Safe Temp. Range	–20 to 80°C
Comp. Temp. Range	–10 to 70°C
Temp. Effect on Zero Bal.	Within ±0.005% RO/°C
Temp. Effect on Out.	Within ±0.005%/°C
Electrical Characteris	tics
Safe Excit. Voltage	20 V AC or DC
Recom. Excit. Voltage	1 to 10 V AC or DC
Input Resistance	350 Ω ±0.5%
Output Resistance	350 Ω ±0.5%
Cable	4-conductor (0.5 mm²) chloroprene shielded cable,
	8.5 mm dia. by 3 m long, with press-fit terminal for 4 mm
	(Shield wire is not connected to the mainframe.)
Mechanical Propertie	es
Safe Overload Rating	150%
Enclosure	Aluminum alloy (mainframe of 50 to 200KA)
Natural Frequency	See table below.
Weight	See table below.
Protection Rating	IP 64 (Sprashproof type conforming to JIS C 0920)

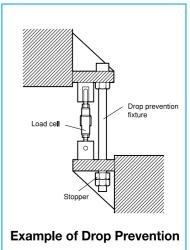
Model	Rated Capacity	Natural Frequency (App.)	Weight (App.)
LTZ-50KA	500 N	1.25 kHz	
LTZ-100KA	1 kN	1.75 kHz	300g
LTZ-200KA	2 kN	2 kHz	
LTZ-500KA	5 kN	2.5 kHz	700 g
LTZ-1TA	10 kN	2.8 kHz	
LTZ-2TA	20 kN	2.6 kHz	1.5 kg
LTZ-5TA	50 kN	4.3 kHz	4.4 kg





Model	Α	В	С	ϕD	Е	F	G	φH	
LTZ-50KA	64	32	19	68	32	22	M6 P=1 d=14	1.6	
LTZ-100KA	04	52	13		52		1010 F=1 U=14	1.0	
LTZ-200KA									
LTZ-500KA	74	74	37	21	78	32	22	M12 P=1.75 d=18	3.5
LTZ-1TA									
LTZ-2TA	94	47	23	98	40	30	M18 P=1.5 d=25	3.5	
LTZ-5TA	See the dimensional drawing above.								



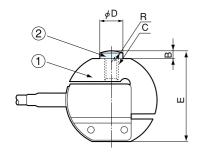


Dimensions in Combination with Special Accessories

●Contact us for using the tension load cell in combination with special accessories.

Note: Special accessories to tension load cells should be pre-attached to load cells at our factory.

In Combination with Patch CWM



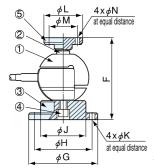
① Load Cell	② Patch	В	С	ϕD	E	R
LTZ-50KA	CWM-6	4	M6 P=1	10	68	SR30
LTZ-100KA	CWW-0	-	IVIO F=1	10	00	3130
LTZ-200KA						
LTZ-500KA	CWM-12	7	M12 P=1.75	19	81	SR30
LTZ-1TA	1					
LTZ-2TA	CWM-18	10	M18 P=1.5	26	104	SR70
LTZ-5TA	CWM-24	17	M24 P=2	36	137	31170

Dimensions in Combination with Special Accessories

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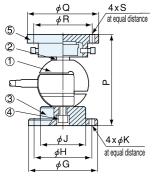
In Combination with Patch CWM, Mount Base CF and Saddle CA



① Load Cell	② Patch	③ Mount Base	Hexagon Socket Head Bolt*	⑤ Saddle	F	φG	φH	φJ	φK	φL	φM	φN
LTZ-50KA	CWM-6	CF-6	M6 P=1 L=20	CA-2B	107	88	72	56	7	53	38	7
LTZ-100KA	C W IVI-0	Cr-6	1016 P=1 L=20	CA-2B	107		'-	50	′	30	00	′
LTZ-200KA												
LTZ-500KA	CWM-12	CF-12	M12 P=1.75 L=30	CA-2B	130	105	87	70	9	53	38	7
LTZ-1TA												
LTZ-2TA	CWM-18	CF-18	M18 P=1.5 L=30	CA-2B	153	105	87	70	9	53	38	7
LTZ-5TA	CWM-24	CF-24	M24 P=2 L=40	CA-10B	201	148	124	100	13	98	80	11

^{*}Hexagon socket head bolt is attached to the mount base for its connection to the load cell.

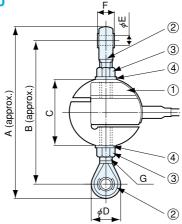
● In Combination with Patch CWM, Mount Base CF and Movable Saddle ER



① Load Cell	② Patch	3 Mount Base	Hexagon Socket Head Bolt*	⑤ Movable Saddle	φG	φH	φJ	φK	Р	φQ	φR	s
LTZ-50KA	CWM-6	CF-6	M6 P=1 L=20	ER-2B	88	72	56	7	122	108	90	M8
LTZ-100KA	CWW-0	01-0	IVIO F=1 L=20	LN-2D	00	12	30	′	122	100	30	IVIO
LTZ-200KA												
LTZ-500KA	CWM-12	CF-12	M12 P=1.75 L=30	ER-2B	105	87	70	9	145	108	90	M8
LTZ-1TA												
LTZ-2TA	CWM-18	CF-18	M18 P=1.5 L=30	ER-2B	105	87	70	9	168	108	90	M8
LTZ-5TA	CWM-24	CF-24	M24 P=2 L=40	ER-5B	148	124	100	13	226	148	128	M12

^{*}Hexagon socket head bolt is attached to the mount base for its connection to the load cell.

● In Combination with Ball Jount TU



① Load Cell	② Ball Joint	③ Hexagon Nut	4 Spring Washer	Α	В	С	φD	φE	F	G	Static Breaking Load (Approx.)			
LTZ-50KA	TU-6C	M6 P=1	#2 6S	128	110	64	18 6				9		M6 P=1	1.4 kN
LTZ-100KA	10-00	IVIO I = I	#2 03	120	110	04	10	"	9	IVIO F=1	2.9 kN			
LTZ-200KA											5.8 kN			
LTZ-500KA	TU-12C	M12 P=1.75	#2 12S	196	166	74	30	12	16	M12 P=1.75	14.7 kN			
LTZ-1TA											29.4 kN			
LTZ-2TA	TU-18C	M18 P=1.5	#2 18S	232	190	94	42	18	23	M18 P=1.5	58.8 kN			
LTZ-5TA	TU-24C	M24 P=2	#3 24S	346	276	120	70	25	37	M24 P=2	147 kN			

Dimensions A and B are approximate, since the ball joint is screw-in type.