

LOAD CELLS

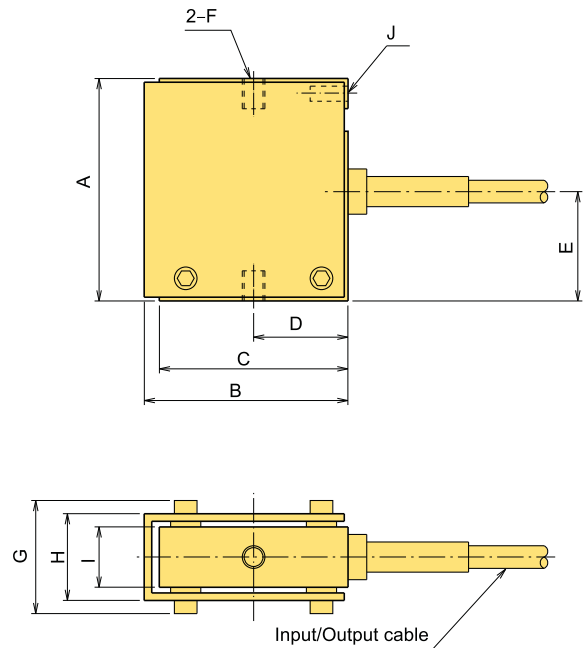
TCLZ-NB(10~200N)/TCLZ-NA(500N~10kN)Tension/Compression Universal Load Cell



The TCLZ-NA/TCLZ-NB Tension/Compression Universal Load Cell is a high precision load cell that is compact and light weight. With its beam type internal structure, it is widely used as a sensor for controlling industrial machinery.

Protection ratings: IP41 equivalent

High precision
Various capacities



■ DIMENSIONS

TYPE	A	B	C	D	E	F	G	H	I	J
TCLZ-10NB	59	84	80	40	29.5	M6 x 1 DP8	28	21	14	φ 4 DP10
TCLZ-20NB	59	84	80	40	29.5	M6 x 1 DP8	28	21	14	φ 4 DP10
TCLZ-50NB	59	54	50	25	29.5	M6 x 1 DP8	30	23	16	φ 4 DP10
TCLZ-100NB	59	54	50	25	29.5	M6 x 1 DP8	30	23	16	φ 4 DP10
TCLZ-200NB	59	54	50	25	29.5	M6 x 1 DP8	30	23	16	φ 4 DP10
TCLZ-500NA	67	54	50	25	33.5	M12 x 1.75 DP12	34	27	20	φ 6 DP12
TCLZ-1KNA	67	54	50	25	33.5	M12 x 1.75 DP12	34	27	20	φ 6 DP12
TCLZ-2KNA	67	54	50	25	33.5	M12 x 1.75 DP12	34	27	20	φ 6 DP12
TCLZ-5KNA	75	60	56	28	37.5	M12 x 1.75 DP14	34	27	20	φ 6 DP12
TCLZ-10KNA	75	60	56	28	37.5	M12 x 1.75 DP14	34	27	20	φ 6 DP12

■ FITTING ACCESSORY

TYPE	Rotary attachment FD	Rod End FE	Eye Bolt FF	Load Button FG	Shackle FH
TCLZ-10NB~200NB	FD-002	FE-002A	—	FG-002	—
TCLZ-500NA~5KNA	FD-05A	FE-05A	FF-1	FG-05	FH-1B
TCLZ-10KNA	FD-1A	FE-1A	FF1	FG-05	FH-1B

Refer to pages 35~38 for load cell fitting accessories.

■ SPECIFICATIONS

TYPE	TCLZ-10NB	TCLZ-20NB	TCLZ-50NB	TCLZ-100NB	TCLZ-200NB	TCLZ-500NA	TCLZ-1KNA	TCLZ-2KNA	TCLZ-5KNA	TCLZ-10KNA
Capacity	10N	20N	50N	100N	200N	500N	1kN	2kN	5kN	10kN
Rated Output	1.5mV/V(3000×10 ⁻⁶ strain) ±0.5%		2.5mV/V (5000×10 ⁻⁶ strain) ±0.5%			2mV/V (4000×10 ⁻⁶ strain) ±0.5%				
Non-linearity	0.05%RO		0.03%RO				0.03%RO			0.05%RO
Hysteresis	0.05%RO		0.03%RO				0.03%RO			0.05%RO
Natural frequency	0.14kHz	0.21kHz	0.45kHz	0.59kHz	0.87kHz	1.2kHz	1.7kHz	2.9kHz	3.5kHz	3.6kHz
Temperature effect on zero	0.01%RO/°C		0.006%RO/°C			0.005%RO/°C				
Temperature effect on span						0.005%/°C				
Compensated temperature range	-10 ~ +60°C									
Allowable temperature range	-20 ~ +70°C									
Over load	150%									
Input/Output resistance	350Ω±2%		350Ω±1%							
Recommended exciting voltage	6V or less									
Allowable exciting voltage	15V									
Zero balance	5%RO									
Weight	0.2kg	0.2kg	0.1kg	0.1kg	0.1kg	0.4kg	0.4kg	0.4kg	0.6kg	0.6kg

Input/Output cable : TCLZ-10NA/-20NA φ 3mm 0.05mm² 4-core shielded chloroprene cable 5m
: Others φ 6mm 0.35mm² 4-core shielded chloroprene cable 5m