

TLB

- Capacities : 20kN...200kN
- Easy install
- Tensile force measurement



Specifications

Rated output (R.O.)	1mV/V
Rated output tolerance	±10%
Zero balance	±10%R.O.
Nonlinearity	±0.2%R.O.
Hysteresis	±0.2%R.O.
Repeatability	±0.2%R.O.
Temperature effect on zero	±0.005%R.O./°C
Temperature effect on output	±0.005%R.O./°C
Temperature range, compensated	-10°C~+60°C
Temperature range, safe	-20°C~+70°C
Maximum safe overload	150%R.C.
Ultimate overload	200%R.C.
Excitation, recommended	10V
Excitation, maximum	15V
Input impedance (approx.)	380Ω±50Ω
Output impedance (approx.)	350Ω±10Ω
Insulation resistance	>1000MΩ (B/E DC50V)
Cable type	φ5 : [2T, 3T] φ9 : [5T...20T] 4-wire, PVC, braid shield
Cable length	10m
Construction	Steel

Model

Rated Capacity

TLB -

2T	20kN (2.04tf)
3T	30kN (3.06tf)
5T	50kN (5.1tf)
10T	100kN (10.2tf)
20T	200kN (20.4tf)

Mechanical characteristics

Model	Rated deflection	Natural frequencies (Approx.)	Weight (Approx.)
TLB-2T	<0.08mm	1.6kHz	1.7kg
TLB-3T			2.6kg
TLB-5T			4kg
TLB-10T	<0.09mm	1.4kHz	8kg
TLB-20T	<0.11mm		15kg

Cable color code

Item	φ5 Cable	φ9 Cable
Excitation +	Red	Red
Excitation -	White	White
Signal output +	Green	Green
Signal output -	Blue	Black
Shield	Yellow	Yellow

Outline dimensions (mm)

Dimensions

Rated capacity	2T	3T	5T	10T	20T
A	220	240	250	320	380
B	70	80	90	110	130
C	(30.8)	(35.8)	(40.8)	(50)	(65)
D	20	25	30	35	50
E	160	168	178	220	250
2-φF	φ28	φ38	φ38	φ50	φ61
G	30	36	36	50	65
H	33	35	40	54	64
J	19	19.5	20	21	23

