

T3B1 series



Feature

General purpose tension load cell. Ideal for conversion of mechanical scales into electronic scales.

Options

Rod end bearing

Table of P/N

Parts No.	Rated Capacity
T3B1-20K	196.1 N {20 kgf}
T3B1-50K	490.3 N {50 kgf}
T3B1-100K	980.7 N {100 kgf}
T3B1-200K	1.961 kN {200 kgf}
T3B1-500K	4.903 kN {500 kgf}
T3B1-1T	9.807 kN {1 tf}
T3B1-2T	19.61 kN {2 tf}
T3B1-5T	49.03 kN {5 tf}

Specifications

Rated Capacity	196.1 N {20 kgf} to 49.03 kN {5 tf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	3 mV/V \pm 0.015 mV/V
Non-linearity	0.03 %R.O.
Hysteresis	0.03 %R.O.
Repeatability	0.03 %R.O.
Excitation, recommended	10 V or less
Excitation, maximum	15 V
Zero balance	\pm 0.03 mV/V
Input resistance	350 ohm \pm 3.5 ohm
Output resistance	350 ohm \pm 5 ohm
Insulation resistance	2 000 M-ohm or more(DC50 V) (between bridge and main body)
Temp. range compensated	-10 °C to 70 °C
Temp. range safe	-20 °C to 80 °C
Temp. effect on zero balance	0.05 %R.O./10 °C
Temp. effect on output	0.1 %LOAD/10 °C
Cable	ϕ 6.3, 4-cores 3 m cable directly attached. Y-crimp type terminal lugs are attached at cable end.
Class of protection	IP64
Material of the element	T3B1-20K to 200K : Aluminium alloy T3B1-500K to 5T : Alloy steel
Paint	Main body : Painted with epoxy resin (Black) Cover : Painted with polyurethane (Blue)
Durability	1 000 000 times with rated load applied.