





"DBJ" / Ultralow-Capacity and High Accuracy

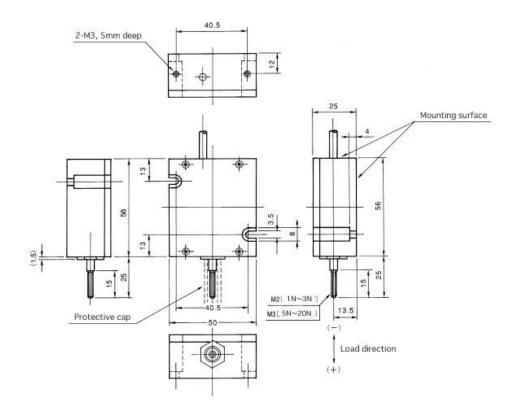


Features

- Covering the minute wide capacity range 1 to 20N.
- Using special designed 350Ω strain gages for the detection of load, thereby, an excellent linearity or thermal coefficient of 0.025%RO can be attained.
- Attractive load charactetistics in maximum overload (200%RO) and in side load (40%).
- Guaranteeing the load leaving off coefficient up to 5 cm maximum and within 0.005%/cm.
- A specially designed mounting table (Optionally supplied) can be utilized as a measuring unit.

Related products: WBJ / WBFJ...

Appearance Dimensions









Micro Sensor Technology SHOWA MEASURING INSTRUMENTS INC. Tokyo Japan

Model and Capacity / Dimension / etc. (unit : mm)

Model	Capacity	Deflection	Natural frequency	Weight
DBJ-1N	1N	0.42mm	82Hz	125g
DBJ-1.5N	1.5N	0.36mm	110Hz	125g
DBJ-2N	2N	0.35mm	130Hz	125g
DBJ-3N	3N	0.30mm	170Hz	125g
DBJ-5N	5N	0.24mm	180Hz	125g
DBJ-10N	10N	0.20mm	360Hz	125g
DBJ-20N	20N	0.16mm	570Hz	125g

* Weight shown in the above list does not include weight of the cables.

Specifications

200%RC Safe Overload Maximum permissible overload 300%RC Acceptable overload of stopper 500%RC Maximum side load 40%RC **Rated Output** 2 mV/V±5% Nonlinearity 0.025%RO 0.025%RO Hysteresis Load leaving off coefficient 0.005%/cm **Excitation Voltage** 7V (or less) 10V Safe Excitation Voltage 350Ω Input Rsistance

 $\begin{array}{lll} \text{Output Rsistance} & 350\Omega \\ \text{Compensated Temp.Range} & -10 \text{ to } 45^{\circ}\text{C} \\ \text{Safe Temp.Range} & -20 \text{ to } 60^{\circ}\text{C} \\ \text{Temp.Effect on Zero} & 0.004\%\text{RO/°C} \\ \text{Temp.Effect on Output} & 0.003\%/^{\circ}\text{C} \\ \end{array}$

Cable Φ 4mm-4wire shielded cable, length : 2m(tip peeled off)

- Acceptable overload of stopper: The acceptable overload coefficient of stopper represents the maximum
 permissible overload value exceeding which the load cell in question can still retain its status as a load cell. In
 other words, any influences may not be produced in that load cell even in case when internal mechanisms might
 be damaged within this overload range.
- Maximum Side Load: The maximum side load coefficient represents the permissible load by which a load cell can
 endure at 90 degree angles with the loading axis of that load cell and it corresponds to 23.5 degrees if expressed









by a slant angle against the loading point. Its sensitivity varies in proportion with "cos0" but its varying accuracy is guaranteed.

Load Leaving Off Coefficient: The load leaving off coefficient indicates the amount of variations in the output taking
place when the load center leaves off from the axial center of the load cell. The leaving off distance of Model DBJ
is guaranteed to be 5 cm in the maximum.

