

NMB

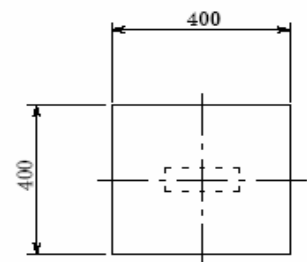
SPECIFICATIONS ELECTRONIC SCALE

LOAD CELL CB004-10K~100K

SPEC.No.EN214091-B 1/2

- **Performanc**
 - Rated capacity : 98.07 N {6 kgf} ~ 980.7 N {100 kgf}
 - Safe overload : 150 %R.C.
 - Ultimate overload : 200 %R.C.
 - Rated output : 2 mV/V ± 0.2 mV/V
 - Non-linearity : 0.015 %R.O.
 - Hysteresis : 0.015 %R.O.
 - Repeatability : 0.02 %R.O.
 - Creep : 0.02 %R.O./20 min
 - Creep recovery : 0.02 %R.O./20 min
- **Electrical**
 - Excitation, recommended : 12 V or less
 - Excitation, at maximum : 20 V
 - Zero balance : ± 0.1 mV/V
 - Input resistance : 420 Ω \pm 20 Ω
 - Output resistance : 350 Ω ± 5 Ω
 - Insulation resistance (between bridge and main body) : 2 000 MΩ or more.(DC 50 V)
- **Temperature**
 - Temperature range, compensated : -10 °C to 50 °C
 - Temperature range, safe : -10 °C to 50 °C
 - Temperature effect on zero balance : 0.04 %R.O./10 °C
 - Temperature effect on output : 0.012 %LOAD/10 °C
- **Cable**
 - : φ 3.2, 4-cores shielded 40 cm cable directly attached, cable ends is separated.
- **Class of protection** : Equivalent to IP40(Main body only.)
- **Material of element** : Aluminium alloy
- **Durability** : 10⁶ times with rated load applied.
- **Effect of eccentric load** :

Maximum size of loading plate



Unit : mm

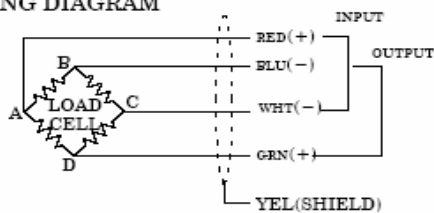
- Size of loading plate : 400 mm x 400 mm at maximum.
- The center of loading plate and also the center of load cell should be the same position.
- Error is within 0.01 %R.O. applied with 1/2 of rated capacity at the position of 100 mm of eccentricity.

Note) R.O. means Rated Output and also R.C. means Rated Capacity.

Polarity of output will become plus(+) when the direction of compression load is applied.

If polarity change is required, change wiring of blue and green.

WIRING DIAGRAM



Composition	
Main body	1

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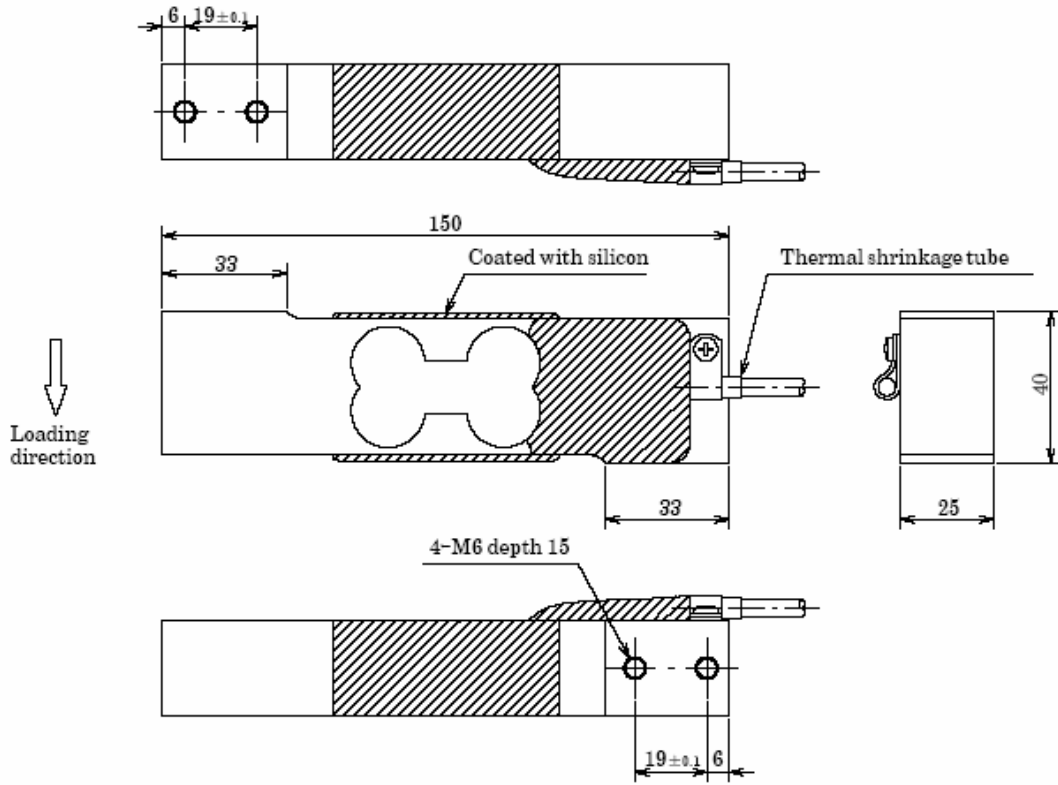


Table for P/N

Unit : mm

P/N	Rated capacity	Rated displacement	Natural frequency (Hz)	Weight (Approx. g)
CB004-10K	98.07 N(10 kgf)	0.55	160	350
CB004-15K	147.1 N(15 kgf)	0.55	200	350
CB004-20K	196.1 N(20 kgf)	0.55	230	350
CB004-25K	245.2 N(25 kgf)	0.55	250	350
CB004-30K	294.2 N(30 kgf)	0.55	270	360
CB004-35K	343.2 N(35 kgf)	0.55	300	360
CB004-45K	441.3 N(45 kgf)	0.55	330	370
CB004-60K	588.4 N(60 kgf)	0.55	380	380
CB004-100K	980.7 N(100 kgf)	0.55	450	390

Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement without notice.