



NMB

SPECIFICATIONS

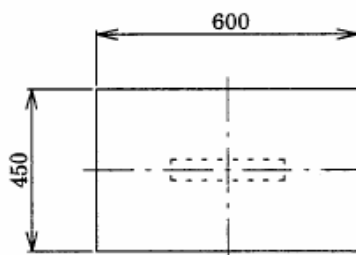
Load Cell for Electronic Scale

Load Cell
CB14-100K~300K-21

SPEC.No.EN214101-A 1/2

- Performance
 - Rated capacity : 980.7 N{100 kgf}~2.942 kN{300 kgf}
 - Safe overload : 150 %R.C.
 - Ultimate overload : 200 %R.C.
 - Rated output : 2.2 mV/V ± 0.11 mV/V
 - Non-linearity : 0.02 %R.O.
 - Hysteresis : 0.02 %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 : ± 0.11 mV/V
 - Input resistance : 405 Ω ± 10 Ω
 - Output resistance : 350 Ω ± 5 Ω
 - Insulation resistance : 2 000 MΩ or more.(DC 50 V)
(between bridge and main body)
- Temperature
 - Temperature range, compensated : -10 °C to 50 °C
 - Temperature range, safe : -10 °C to 70 °C
 - Temperature effect on zero balance : 0.05 %R.O./10 °C
 - Temperature effect on output : 0.02 %LOAD/10 °C
- Cable : φ 4.7, 4-cores shielded cable 148.5 cm directly attached,
Cable ends separated.
- Class of protection : Equivalent to IP40
- Material of element : Aluminium alloy
- Durability : 10⁶ times with rated load applied.
- Effect of eccentric load :
 - Refer to the above figure as for the maximum size of loading plate.
 - The center of loading plate and also the center of load cell should be the same position.
 - Error is within 0.04 %R.O. applied with 1/6 of rated capacity at the position of 188 mm of eccentricity.

Maximum size of loading plate

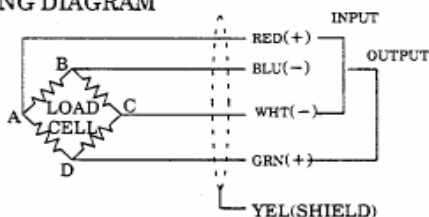


Note) R.O. means Rated Output and also R.C. means Rated Capacity.

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

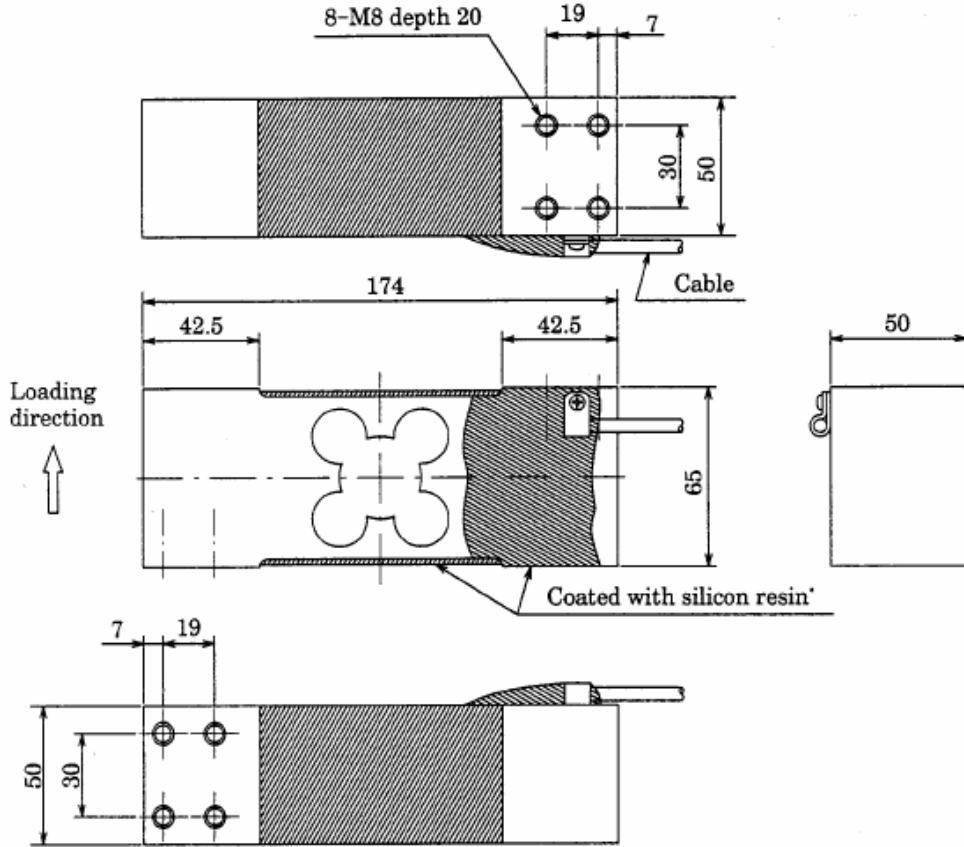


Composition	
Main body	1
Inspection data sheet	1

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Load Cell
CB14-100K~300K-21

SPEC.No.EN214101-A 2/2



Outline dimensions

Unit : mm

P/No.	Rated capacity	Rated displacement	Natural frequency(Hz)	Weight (Approx.kg)
CB14-100K-21	980.7 N(100 kgf)	0.5	84	1.1
CB14-150K-21	1.471 kN(150 kgf)	0.5	90	
CB14-250K-21	2.452 kN(250 kgf)	0.5	127	
CB14-300K-21	2.942 kN(300 kgf)	0.5	150	

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



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