

Square beam type load cell C2B1B-※ series (General Spec.)

2024/02/28

Features



Ideal for weighing system of floor / tank / hopper scale.

Specification

Specification name	Specification contents
Rated capacity	200 kg (1.961 kN) ~ 2 ton (19.61 kN)
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	2 mV/V±0.002 mV/V (C2B1B-200K : 1.6 mV/V±0.002 mV/V)
Non-linearity	0.025 %R.O.
Hysteresis	0.025 %R.O.
Repeatability	0.025 %R.O.
Creep	0.03 %R.O./30 min
Creep recovery	0.03 %R.O./30 min
Excitation, recommended	12 V or less
Excitation, maximum	20 V
Zero balance	±0.02 mV/V
Input resistance	380 Ω ~ 460 Ω
Output resistance	345 Ω ~ 355 Ω
Insulation resistance	2,000 MΩ or more (DC50 V) (between bridge and main body)
Temp. range, compensated	-10 °C~70 °C
Temp. range, safe	-20 °C~80 °C
Temp. effect on zero balance	0.05 %R.O./10 °C
Temp. effect on output	0.02 %R.O./10 °C

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Temp. effect on output	0.02%/10°C
Class of protection	IP68 or equivalent
Material of element	Stainless steel
Durability	1,000,000 times with rated load applied.

Table of P/N

Parts No.	Rated capacity [kN]	Rated capacity [kgf]	Rated capacity [tf]	Natural frequency [Hz]	Rated displacement [mm]	Weight(Approx.) [kg]
C2B1B-200K	1.961	200		1000	0.15	0.8
C2B1B-250K	2.942	250		1000	0.15	0.8
C2B1B-500K	4.903	500		1000	0.2	0.8
C2B1B-1T	9.807		1	1000	0.3	0.8
C2B1B-2T	19.61		2	1500	0.5	1.5

Parts No.	Cable	3D CAD files [STEP]	CAD files [DXF]	Specification sheet	Instruction Manual
C2B1B-200K	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs at cable end.	C2B1B-200K~250K.zip	c2b1b-200k.dxf	No.KT52635-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
C2B1B-250K	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs at cable end.	C2B1B-200K~250K.zip	c2b1b-200k.dxf	No.KT52635-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
C2B1B-500K	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs at cable end.	C2B1B-500K.zip	c2b1b-200k.dxf	No.KT52635-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
C2B1B-	φ4.7, 4-cores shielded 6 m cable directly attached	C2B1B-1T.zip	c2b1b-	No.KT52635-	ENKT60242-

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1T	with Y-type crimp terminallugs at cable end.	C2B1B-1T.zip	200k.dxf	2	1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
C2B1B-2T	φ4.7, 4-cores shielded6 m cable directly attached with Y-type crimp terminallugs at cable end.	C2B1B-2T.zip	c2b1b-2t.dxf	No.KT52635-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf

Options

<Bearing plate>

[BP\(SB\)/RP\(SB\) series BPRP2](#)

<Rocker pin>

[BP\(SB\)/RP\(SB\) series BPRP2](#)

<Mounting attachment with slide-stop mechanism>

[Rocker pin method mounting attachment RCA-C2B1B- *-S series](#)

[LF series](#)