

Square beam type load cell C2B1B- * -C3 series (OIML spec.)

2024/02/28

Features



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

Available for OIML R60 Class C3 certified model.

C2B1B (General Spec.) 200 kg {1.961 kN} ~ 2 t {19.61 kN}

Specification

Specification name	Specification contents
OIML Accuracy class	OIML R60 C3
Maximum scale	3,000
Rated capacity	200kg~2t
Minimum detected scale (Vmin)	20g~200g
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	0.023 %R.O.
Hysteresis	0.023 %R.O.
Repeatability	0.010 %R.O.
Creep	0.016 %R.O./30 min
Creep recovery	0.016 %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

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Input resistance	300 Ω ~ 400 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~40 °C
Temp. range, safe	-20 °C~80 °C
Temp. effect on zero balance	0.014 %R.O./10 °C
Temp. effect on output	0.012 %LOAD/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 [kg]	Rated capacity [t]	Natural frequency [Hz]	Rated displacement [mm]	Weight(Approx.) [kg]	Cable
C2B1B-200K-C3	200		1000	0.15	0.8	φ4.7, 4-cores shielded6 m cable directly attached with Y-type crimp terminallugs at cable end.
C2B1B-250K-C3	250		1000	0.15	0.8	φ4.7, 4-cores shielded6 m cable directly attached with Y-type crimp terminallugs at cable end.
C2B1B-500K-C3	500		1000	0.2	0.8	φ4.7, 4-cores shielded6 m cable directly attached with Y-type crimp terminallugs at cable end.
C2B1B-1T-C3		1	1000	0.3	0.8	φ4.7, 4-cores shielded6 m cable directly attached with Y-type crimp terminallugs at cable end.
C2B1B-2T-C3		2	1500	0.5	1.5	φ4.7, 4-cores shielded6 m cable directly attached with Y-type crimp terminallugs at cable end.

Parts No.	3D CAD files [STEP]	CAD files[DXF]	Specification sheet	Instruction Manual
C2B1B-200K-C3	C2B1B-200K~250K.zip	c2b1b-200k.dxf	No.KT53390-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
C2B1B-250K-C3	C2B1B-200K~250K.zip	c2b1b-200k.dxf	No.KT53390-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
C2B1B-500K-C3	C2B1B-500K.zip	c2b1b-200k.dxf	No.KT53390-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf

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C2B1B-1T-C3	C2B1B-1T.zip	c2b1b-200k.dxf	No.KT53390-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
C2B1B-2T-C3	C2B1B-2T.zip	c2b1b-2t.dxf	No.KT53390-2	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](#)