

Beam type load cell CBC1-~~※~~ series

2024/02/28

Features



Suitable for the weighing systems of which mounting space is limited.

Specification

Specification name	Specification contents
Rated capacity	49.03 N {5 kgf}~19.61 kN {2 tf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	2 mV/V+0.004 mV/V/-0 mV/V
Non-linearity	0.03 %R.O.
Hysteresis	0.02 %R.O.
Repeatability	0.02 %R.O.
Excitation, recommended	12 V or less
Excitation, maximum	20 V
Zero balance	±0.02 mV/V
Input resistance	420 Ω±40 Ω
Output resistance	350 Ω±3 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~100 °C
Temp. effect on zero	0.02 %R.O./10 °C
Temp. effect on output	0.02 %LOAD/10 °C
Class of protection	IP64 or equivalent
Material of element	Alloy steel

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Paint	Epoxy resin (Black)
Durability	1,000,000 times with rated load applied.
Mechanical performance	Maximum ultimate lateral load : 50 %R.C. , Maximum ultimate axial load : 100 %R.C.

Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [kN]	Rated capacity [kgf]	Rated capacity [tf]	Natural frequency [Hz]	Rated displacement [mm]
CBC1-5K	49.03		5		250	0.29
CBC1-10K	98.07		10		417	0.29
CBC1-20K	196.1		20		556	0.29
CBC1-50K	490.3		50		1000	0.29
CBC1-100K	980.7		100		1333	0.29
CBC1-200K		1.961	200		333	0.29
CBC1-300K		2.942	300		492	0.29
CBC1-500K		4.903	500		810	0.29
CBC1-1T		9.807		1	1000	1.47
CBC1-2T		19.61		2	1300	1.67

Parts No.	Weight(Approx.) [kg]	Cable	3D CAD files [STEP]	Specification sheet	Instruction Manual
CBC1-5K	1	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	CBC1-5K~100K.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
CBC1-10K	1	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs	CBC1-5K~100K.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf

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		are attached at cable end.			
CBC1-20K	1	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	CBC1-5K~100K.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
CBC1-50K	1	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	CBC1-5K~100K.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
CBC1-100K	1	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	CBC1-5K~100K.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
CBC1-200K	2	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	CBC1-200K~500K.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
CBC1-300K	2	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	CBC1-200K~500K.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
CBC1-500K	2	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	CBC1-200K~500K.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf

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CBC1-1T	2.8	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	CBC1-1T.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf
CBC1-2T	4	φ6.3, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	CBC1-2T.zip	No.KT51696-2	ENKT60242-1_C3B1+C2B1B+CBC1+CBE1+U3C1.pdf