For commercial scale CB14-＊-21 General standard

2023/03/22

Features

・High capacity.
・Accurate and reliable model.

Specification

Specification name	Specification contents
Rated capacity	980.7 N{100 kgf}～4.903 kN{500 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
Excitation, recommended	12 V or less
Excitation, maximum	20 V
Zero balance	±0.11 mV/V
Input resistance	395 Ω ～ 415 Ω

For commercial scale CB14-＊-21 General standard

2023/03/22

Input resistance	[illegible]
Output resistance	345 Ω ~ 355 Ω
Insulation resistance	2,000 MΩ or more(DC50 V)(between bridge and main body)
Temp. range, compensated	−10 ℃～50 ℃
Temp. range, safe	−10 ℃～70 ℃
Temp. effect on zero	0.05 %R.O./10 ℃
Temp. effect on output	0.02 %LOAD/10 ℃
Class of protection	IP64 or equivalent
Material of element	Alluminium alloy
Durability	1,000,000 times with rated load applied.
Effect of eccentric load	・Size of loading plate is 450 mm x 600 mm at maximum. ・The center of loading plate and the center of load cell should be the same position ・Error is within 0.02 %R.O. applied with 1/2 of rated capacity at the position of 150 mm of eccentricity.

Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [kN]	Rated capacity [kgf]	Weight(Approx.) [kg]	Natural frequency [Hz]	Rated displacement [mm]
CB14-100K-21	980.7		100	1.3	280	0.5
CB14-150K-21		1.471	150	1.3	280	0.5
CB14-250K-21		2.452	250	1.3	310	0.5
CB14-300K-21		2.942	300	1.3	330	0.5
CB14-500K-21		4.903	500	1.3	340	0.5

Parts No.	Class of protection	3D CAD files [STEP]	CAD files[DXF]
CB14-100K-21	IP64 or equivalent	CB14-100K-21.STEP	cb14.dxf
CB14-150K-21	IP64 or equivalent	CB14-150K-21.STEP	cb14.dxf
CB14-250K-21	IP64 or equivalent	CB14-250K-21.STEP	cb14.dxf
CB14-300K-21	IP64 or equivalent	CB14-300K-21.STEP	cb14.dxf
CB14-500K-21	IP64 or equivalent	CB14-500K-21.STEP	cb14.dxf