Explosion-proof canister type load cell CCP1-※-Z series

2024/02/28

Features

Suitable for high explosion risk envitonment such as with flammable liquid or gas.

Specification

Specification name	Specification contents
Rated capacity	1.961 kN {200 kgf}～196.1 kN {20 tf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	2.8 mV/V±0.002 8 mV/V(CCP1-2T～20T-Z : 3 mV/V±0.003 mV/V)
Non-linearity	0.05 %R.O.
Hysteresis	0.02 %R.O.
Repeatability	0.02 %R.O.
Excitation, recommended	12 V or less
Excitation, maximum	20 V
Zero balance	±0.028 mV/V (CCP1-2T～20T-Z : 0.03 mV/V)
Input resistance	350 Ω±3.5 Ω
Output resistance	350 Ω±5 Ω
Insulation resistance	2,000 MΩ or more (DC50 V)(between bridge and main body)
Temp. range, compensated	－10 ℃～70 ℃
Temp. range, safe	－20 ℃～100 ℃
Temp. effect on zero	0.03 %R.O./10 ℃
Temp. effect on output	0.03 %LOAD/10 ℃
Class of protection	IP64 or equivalent
Material of element	Alloy steel

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Material of element	Alloy steel
Paint	Painted with epoxy resin.(Munsell 6GY3.5/2 half-polished resemblance color)
Durability	1,000,000 times with rated load applied.
Terminal box	Fixed with solderless terminal screws on the terminal plate
Cable retracting method	Explosion-proof packing type
Piping method	Thick steel conduit tube

Table of P/N

Parts No.	Rated capacity [kN]	Rated capacity [kgf]	Rated capacity [tf]	Natural frequency [Hz]	Rated displacement [mm]	Weight(Approx.) [kg]
CCP1-200K-Z	1.961	200		1200	0.18	5.7
CCP1-300K-Z	2.942	300		1400	0.17	5.7
CCP1-500K-Z	4.903	500		1800	0.15	5.7
CCP1-1T-Z	9.807		1	2800	0.13	5.7
CCP1-2T-Z	19.61		2	2100	0.17	5.8
CCP1-3T-Z	29.42		3	2600	0.16	5.8
CCP1-5T-Z	49.03		5	3500	0.13	5.8
CCP1-10T-Z	98.07		10	2500	0.18	13.5
CCP1-20T-Z	196.1		20	1800	0.24	28.5

Parts No.	Cable	3D CAD files [STEP]	CAD files[DXF]	Specification sheet	Instruction Manual
CCP1-200K-Z	CAB-501 should be used. (Option)(φ10, 6-cores shielded cable is attached.)	CCP1-200K~1T-Z.zip	ccp1z_200k.dxf	No.KT52285-2	ENKT60294-1_CCP1-Z.pdf
CCP1-300K-Z	CAB-501 should be used. (Option)(φ10, 6-cores shielded cable is attached.)	CCP1-200K~1T-Z.zip	ccp1z_200k.dxf	No.KT52285-2	ENKT60294-1_CCP1-Z.pdf
CCP1-500K-Z	CAB-501 should be used. (Option)(φ10, 6-cores shielded cable is attached.)	CCP1-200K~1T-Z.zip	ccp1z_200k.dxf	No.KT52285-2	ENKT60294-1_CCP1-Z.pdf
CCP1-1T-Z	CAB-501 should be used. (Option)(φ10, 6-cores shielded cable is attached.)	CCP1-200K~1T-	ccp1z_200k.dxf	No.KT52285-2	ENKT60294-1_CCP1-

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1T-Z	cores shielded cable is attached.)	Z.zip		2	Z.pdf
CCP1-2T-Z	CAB-501 should be used. (Option)(φ10, 6-cores shielded cable is attached.)	CCP1-2T~5T-Z.zip	ccp1z_2t.dxf	No.KT52286-2	ENKT60294-1_CCP1-Z.pdf
CCP1-3T-Z	CAB-501 should be used. (Option)(φ10, 6-cores shielded cable is attached.)	CCP1-2T~5T-Z.zip	ccp1z_2t.dxf	No.KT52286-2	ENKT60294-1_CCP1-Z.pdf
CCP1-5T-Z	CAB-501 should be used. (Option)(φ10, 6-cores shielded cable is attached.)	CCP1-2T~5T-Z.zip	ccp1z_2t.dxf	No.KT52286-2	ENKT60294-1_CCP1-Z.pdf
CCP1-10T-Z	CAB-501 should be used. (Option)(φ10, 6-cores shielded cable is attached.)	CCP1-10T-Z.zip	ccp1z_10t.dxf	No.KT52286-2	ENKT60294-1_CCP1-Z.pdf
CCP1-20T-Z	CAB-501 should be used. (Option)(φ10, 6-cores shielded cable is attached.)	CCP1-20T-Z.zip	ccp1z_20t.dxf	No.KT52286-2	ENKT60294-1_CCP1-Z.pdf

Options

<Expansion plate>

EP series EP1

<Bearing plate>

BP/MP series BPMP1

<Mounting plate>

BP/MP series BPMP1

<Mounting attachment with slide-stop mechanism>

Flexibel lock method mounting attachment FCA-CCP1-* series