

Accurate canister type load cell CCP1(A)-~~※~~ series

2024/02/28

Features



Ideal for the weighing system of hopper & tank scales, etc.

Specification

Specification name	Specification contents
Rated capacity	490.3 N {50 kgf}~196.1 kN{20 tf}
Safe overload	150 %R.C. (CCP1-50K~100K : 500 %R.C.)
Ultimate overload	200 %R.C. (CCP1-50K~100K : 500 %R.C.)
Rated output	3 mV/V±0.003 mV/V
Non-linearity	0.05 %R.O.
Hysteresis	0.02 %R.O.(CCP1-50K~100K : 0.05 %R.O.)
Repeatability	0.02 %R.O..(CCP1-50K~100K : 0.05 %R.O.)
Excitation, recommended	12 V or less
Excitation, maximum	20 V
Zero balance	±0.03 mV/V
Input resistance	350 Ω±3.5 Ω
Output resistance	350 Ω±5 Ω
Insulation resistance	5,000 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	0.03 %R.O./10 °C
Temp. effect on output	0.03 %LOAD/10 °C
Class of protection	IP64 or equivalent
Material of element	Alloy steel

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Paint	Painted by epoxy resin(Munsell 6GY3.5/2 half polished resemblance color)
Durability	1,000,000 times with rated load applied.

Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [kN]	Rated capacity [kgf]	Rated capacity [tf]	Natural frequency [Hz]	Rated displacement [mm]
CCP1-50K	490.3		50		360	0.28
CCP1-100K	980.7		100		580	0.23
CCP1A-200K		1.961	200		1200	0.18
CCP1-300K		2.942	300		1400	0.17
CCP1-500K		4.903	500		1800	0.15
CCP1-1T		9.807		1	2800	0.13
CCP1-2T		19.61		2	2100	0.17
CCP1-3T		29.42		3	2600	0.16
CCP1-5T		49.03		5	3500	0.13
CCP1-10T		98.07		10	2500	0.18
CCP1-20T		196.1		20	1800	0.24

Parts No.	Weight(Approx.) [kg]	Cable	3D CAD files [STEP]	CAD files[DXF]	Specification sheet	Instruction Manual
CCP1-50K	3.1	φ10, 4 - cores shielded 6 m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1-50~100K.zip	ccp1_50k.dxf	No.KT52281-2	ENKT60244-1_CMM1+CMP1+UMM1.pdf
		φ10, 4 - cores shielded 10				

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CCP1-100K	3.1	m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1-50~100K.zip	ccp1_50k.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1
CCP1A-200K	3.1	φ10, 4 - cores shielded 14 m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1A-200K.zip	ccp1a_200k.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1
CCP1-300K	2.7	φ10, 4 - cores shielded 18 m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1-300K~1T.zip	ccp1_300k.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1
CCP1-500K	2.7	φ10, 4 - cores shielded 22 m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1-300K~1T.zip	ccp1_300k.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1
CCP1-1T	2.7	φ10, 4 - cores shielded 26 m cable directly attached.Y-type crimp terminal lugs are attached at	CCP1-300K~1T.zip	ccp1_300k.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1

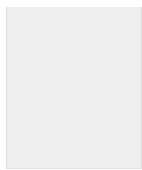
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CCP1-	2T	4.3	cable end. φ10, 4 - cores shielded 30 m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1-2T~5T.zip	ccp1_2t.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1
	3T	4.3	φ10, 4 - cores shielded 34 m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1-2T~5T.zip	ccp1_2t.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1
	5T	4	φ10, 4 - cores shielded 38 m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1-2T~5T.zip	ccp1_2t.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1
	10T	12	φ10, 4 - cores shielded 42 m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1-10T.zip	ccp1_10t.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1
	20T	27	φ10, 4 - cores shielded 46 m cable directly attached.Y-type crimp terminal lugs are attached at cable end.	CCP1-20T.zip	ccp1_20t.dxf	No.KT52281-2	ENKT60253-1_CCP1+CCS1+CCR1+TCP1

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type crimp
terminal
lugs are
attached at
cable end.

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](#)