

TCP1 series

2023/03/22

Features



Suitable for the weighing systems, such as hopper, tank, etc.

Specification

Specification name	Specification contents
Rated capacity	490.3 N {50 kgf}~196.1 kN {20 tf}
Safe overload	150 %R.C. (TCP1-50K~100K : 500 %R.C.)
Ultimate overload	200 %R.C. (TCP1-50K~100K : 500 %R.C.)
Rated output	3 mV/V±0.003 mV/V
Non-linearity	0.05 %R.O.
Hysteresis	0.02 %R.O. (TCP1-50K~100K : 0.05 %R.O.)
Repeatability	0.02 %R.O.. (TCP1-50K~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

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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
Paint	Painted with 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]	Weight(Approx.) [kg]	Natural frequency [Hz]	Rated displacement [mm]	Cable
TCP1-50K	490.3		3.1	360	0.28	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
TCP1-100K	980.7		3.1	580	0.23	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
TCP1-200K		1.961	3.1	1200	0.18	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
TCP1-300K		2.942	2.7	1400	0.17	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
TCP1-500K		4.903	2.7	1800	0.15	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
TCP1-1T		9.807	2.7	2800	0.13	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
TCP1-2T		19.61	4.3	2100	0.17	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.

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TCP1-3T		29.42	4.3	2600	0.16	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
TCP1-5T		49.03	4.3	3500	0.13	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
TCP1-10T		98.07	11.9	2500	0.18	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
TCP1-20T		196.1	27	1800	0.24	φ10, 4-cores shielded 3 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.

Parts No.	3D CAD files [STEP]	CAD files[DXF]	Specification sheet	Instruction Manual
TCP1-50K	TCP1-50K~100K.STEP	tcp1_50k.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-100K	TCP1-50K~100K.STEP	tcp1_50k.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-200K	TCP1A-200K.STEP	tcp1a_200k.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-300K	TCP1-300K~1T.STEP	tcp1_300k.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-500K	TCP1-300K~1T.STEP	tcp1_300k.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-1T	TCP1-300K~1T.STEP	tcp1_300k.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-2T	TCP1-2T~5T.STEP	tcp1_2t.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-3T	TCP1-2T~5T.STEP	tcp1_2t.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-5T	TCP1-2T~5T.STEP	tcp1_2t.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-10T	TCP1-10T.STEP	tcp1_10t.dxf	No.KT52344-2	No.ENKT60253-1-H
TCP1-20T	TCP1-20T.STEP	tcp1_20t.dxf	No.KT52344-2	No.ENKT60253-1-H

Options

Spherical rod end (REB-*)

Swivel clevis shank (SCS-*)