

PPCM 称重传感器 BD-TC4-0.5Te



双向双向称重传感器

MODEL: BD-TC4

主要特点:

能力 0.5te-500te。

线性度 0.05%。

IP67 等级。

应用:

试验机。

过程控制。

小型坦克和筒仓。

数据表: bd-tc4 双向煎饼负载细胞

双向扁平称重传感器

TC4 双向扁平称重传感器是一种低张力和压缩测量装置。一个完全的激光焊接，不锈钢组件，TC4 负载

细胞提供高机械性能，密封等级 IP67。因此，TC4 对于需要静态或动态测量的应用非常有用。



传感器 | 控制仪表 | 推拉力计 | 扭力计

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此外, TC4 被评为 ISO 376 级 1, 非常适合于试验台应用。

包括在 TC4 负载细胞范围提供了可选的 4-20mA 的 tc4-amp, $\pm 5V$ 或 $\pm 10V$ 模拟输出。对于完整的产品规格和完整的选项和配件清单, 请下载产品数据表。

如果 TC4 不太符合你们的要求, 我们就可以用其他方法满足你们的要求。特别是, PLC 的称重传感器可

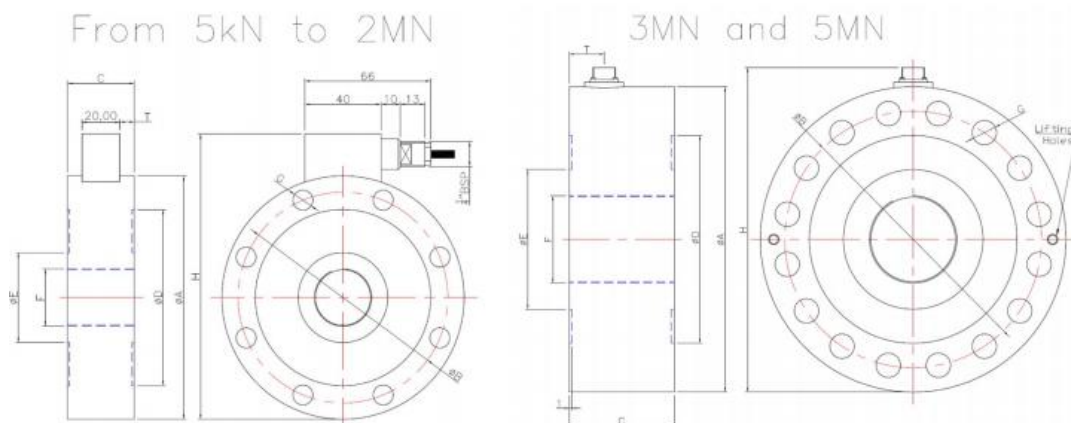
能有特殊的兴趣, 因为设计可以定制 - 请参阅 PLC 数据表获取更多信息。

Typical Specification

PARAMETER	VALUE								UNITS
Capacities Range	0.25, 0.5, 1, 2.5	5, 10	20, 30	50	75, 100	200	300, 500 ⁽²⁾	Te	
Rated Output	2 ⁽³⁾								mV/V
Sensitivity Tolerance	0.1								±% of Rated Output
Relative Error: Repeatability 0°-120°-240°	0.145 ⁽⁴⁾								±% of Rated Output
Relative Error: Interpolation (fc)	0.090 ⁽⁴⁾								±% of Rated Output
Relative Error: Reversibility (u)	0.240 ⁽⁴⁾								±% of Rated Output
Relative Error: Zero (fo)	0.030								±% of Rated Output
Linearity & Hysteresis	0.05								±% of Rated Output
Temperature Effect: On Zero	0.028								±% of Rated Output/°C
Temperature Effect: On Output	0.024								±% of Rated Output/°C
Effect of Transverse Load	0.030								±% of Rated Output
Excitation: Recommended	10								Volts DC
Excitation: Maximum	18								Volts DC
Input Resistance	800 ±20			430 ±20					Ω
Output Resistance	705 ±2			352 ±2					Ω
Insulation Resistance	>5								GΩ
Zero Balance	1								±% of Rated Output
Mechanical Limit: Service Load	120								% of Rated Output
Mechanical Limit: Safe Overload	150								% of Rated Output
Mechanical Limit: Ultimate Overload	>300								% of Rated Output
Mechanical Limit: Safe Transverse Load	100								% of Rated Output
Mechanical Limit: Safe Dynamic Load	75 ⁽⁵⁾								% of Rated Output
Displacement at Nominal Load	0.06	0.09	0.17		0.23		0.21		~ mm
Temperature Range: Operating	-10 to +70								°C
Temperature Range: Storage	-20 to + 80								°C
Weight	1.6	2.5	5.8	6.8	16.5	35	63		~ KG
Environmental Protection	IP67								-
Cable Length	5m								-
Construction Material	Stainless Steel								-

⁽¹⁾ The 5Te TC4 with 100mm diameter can only be used up to 2.5Te in tension. ⁽²⁾ The 300Te and 500Te models can only be used up to 250Te in tension. ⁽³⁾ Tests and calibrations performed in compression with the transducer mounted on a bearing support with correctly tightened clamping screws. ⁽⁴⁾ Percentage errors referred to reading, min. 1/10 of nominal load. ⁽⁵⁾ The dynamic load must be applied to the transducer central thread and not to the external fixing rim.

Outline Dimensions in millimetres



If the dimensions or specification do not suit, PCM has an in-house design team that should be able to satisfy your requirements.

LOAD (Te)	CODE	ØA	B	C	ØD	ØE	F	G	N°G	H	T	KHZ ⁽⁶⁾
0.25	CTC4100250K5	100	86	35	72	32	M20X1.5	9	6	121	7.5	2.5
0.5	CTC4100500K5											2.5
1	CTC41001T5											2.5
2.5	CTC41002T55											4.8
5	CTC41275T5	127	110	35	92	47	M30X2	10.5	8	149	7.5	3.8
10	CTC412710T5											5.8
20	CTC416520T5	165	138	50	108	62	M42X3	17	12	188	15	5.7
30	CTC416530T5			60							20	7.3
50	CTC416550T5			80							30	9.8
75	CTC423075T5			120							60	3.2
100	CTC4230100T5	230	185	130	145	98	M60X3	26	12	254	65	2.7
200 ⁽⁷⁾	CTC4300200T5	300	250	100	198	132	M100X3	25	16	339	50	2.8
300 ⁽⁷⁾	CTC4350300T5	350	294	120	238	178	M100X3	28	16	389	60	2.8
500 ⁽⁷⁾	CTC4350500T5			130							65	2.8

⁽⁶⁾ Natural frequency. ⁽⁷⁾ The 300Te and 500Te models can only be used up to 250Te in tension.

Fixing Screw Specification

	CAPACITY (Te)						
	0.25, 0.5, 1, 2.5, 5	5, 10	20, 30	50	75, 100	200	300, 500
DIAMETER	M8	M10	M16	M16	M24	M24	M27
RESISTANCE CLASS	12.9	12.9	12.9	12.9	12.9	12.9	12.9
TIGHTENING TORQUE (Nm)	40	70	368	368	460	460	1500

WARNING: Check that the fixing screws and any accessories are correctly tightened before use.