

1. SPECIFICATION 性能规格

PARAMETER 参数	NOTE 符号	MIN. 最小值	NOM. 额定值	MAX. 最大值	UNITS 单位
SUPPLY VOLTAGE 供电电压	Vbat	6	12	16	V
OPERATING TEMPERATURE 工作温度	T	-40	-	105	°C
OPERATING PRESSURE 工作压力	P	50	-	165	kPaA
PROOF PRESSURE 安全压力	Pproof	-	400	-	kPaA
SUPPLY CURRENT IN HIGH POWER CONSUMPTION MODE 高功耗模式下供电电流*	Ibat_H	-	18	-	mA
AVERAGE SUPPLY CURRENT IN LOW POWER CONSUMPTION MODE (WORKING PERIOD: 1000ms) 低功耗模式下平均供电电流 (工作周期为1000ms) *	Ibat_L	-	<0.2	-	mA
SUPPLY CURRENT IN DEEP SLEEP MODE 深度休眠模式下供电电流*	Ibat_D	-	-	0.01	mA
HIGH CLAMP 高钳位值	-	-	167.9	-	kPaA
LOW CLAMP 低钳位值	-	-	47.1	-	kPaA
PRESSURE RESPONSE TIME 压力响应时间	T1000	-	-	62	ms
MOUNTING TORQUE 安装力矩	-	4.5	5	5.5	Nm

*SUPPLY CURRENT IS DEFINED UNDER THE CONDITION OF T=23°C AND Vbat=12V
 AVERAGE SUPPLY CURRENT IN LOW POWER CONSUMPTION MODE IS ALSO DEPENDENT ON ITS WORKING PERIOD(100ms~1000ms), SEE BELOW TABLE
 供电电流的定义条件均为: T=23°C 和 Vbat=12V
 低功耗模式下平均供电电流同时取决于其工作周期(100ms~1000ms), 具体见下表

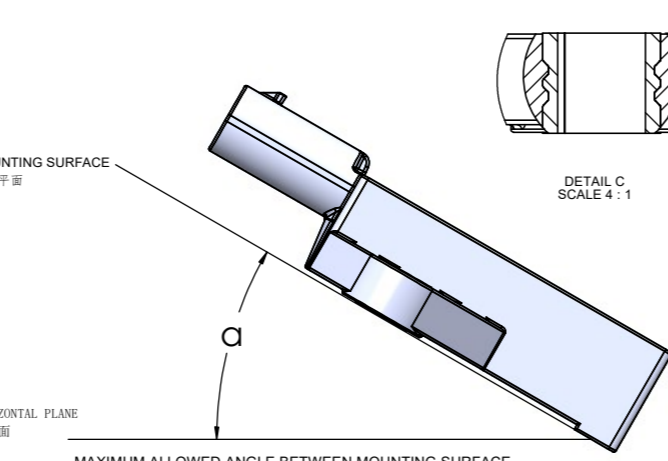
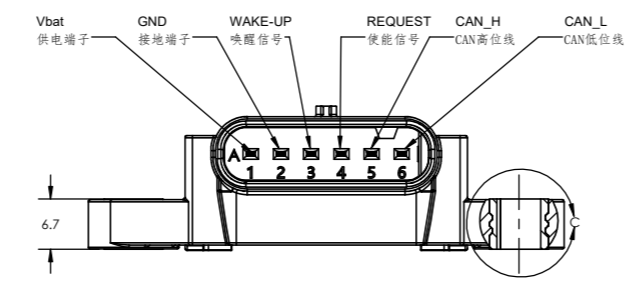
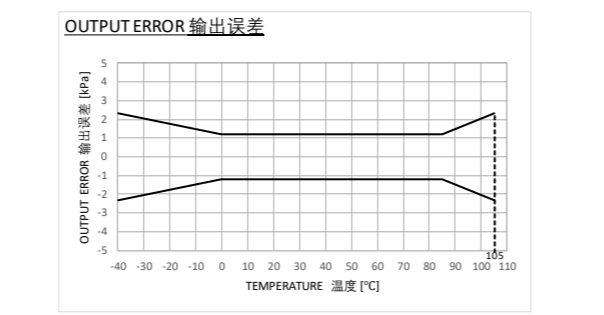
WORKING PERIOD 工作周期/ms	AVERAGE SUPPLY CURRENT 平均供电电流/mA
100	0.98
200	0.53
300	0.38
400	0.3
500	0.25
600	0.22
700	0.2
800	0.19
900	0.17
1000	0.16

2. OUTPUT TRANSFER FUNCTION 输出传递函数

TYPE OF OUTPUT SIGNAL 输出信号方式 : CAN 2.0
 Nout=P*10
 P: OUTPUT PRESSURE 输出压力 [kPaA]

3. OVERALL ERROR 总误差:

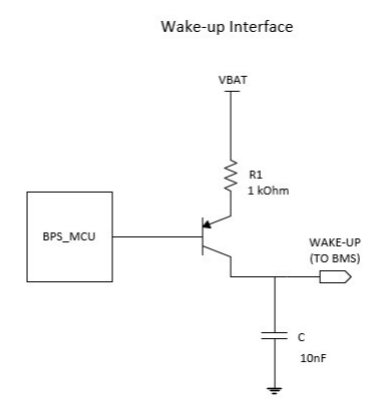
BETWEEN 0°C~85 °C : ±1.2 kPa
 AT -40 °C AND 105°C : ±2.3 kPa



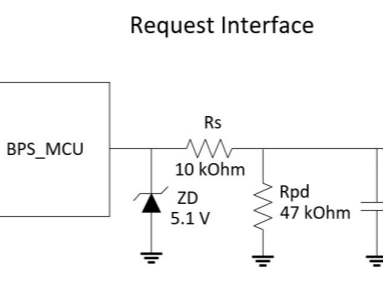
MOUNTING SURFACE 安装平面
 HORIZONTAL PLANE 水平面
 MAXIMUM ALLOWED ANGLE BETWEEN MOUNTING SURFACE AND HORIZONTAL PLANE IN ANY DIRECTION IS: 90°
 KEEP THE PRESSURE INLET DOWNSIDE TO PREVENT BLOCKING
 安装方向与水平面的夹角在任意方向上不大于: 90°
 即保持压力进气孔朝下, 避免进气孔堵塞。

4. BPS ELECTRICAL INTERFACE BPS 电气接口

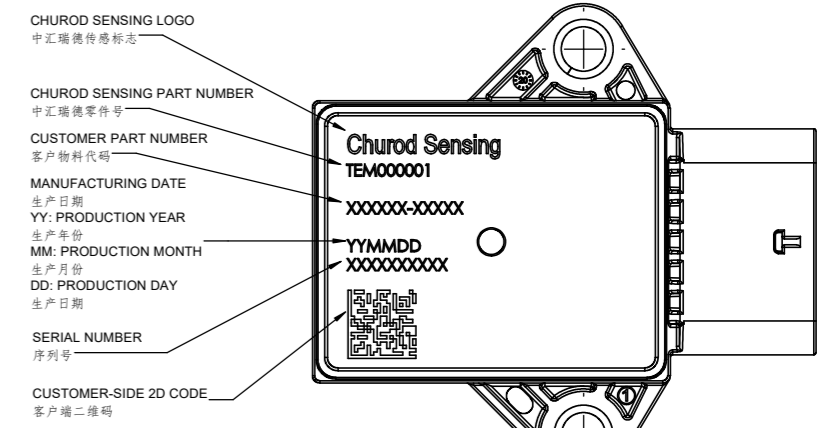
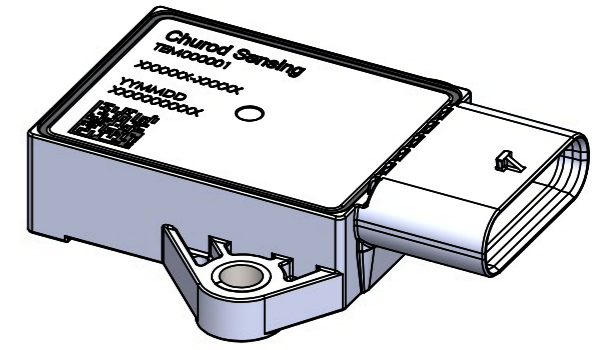
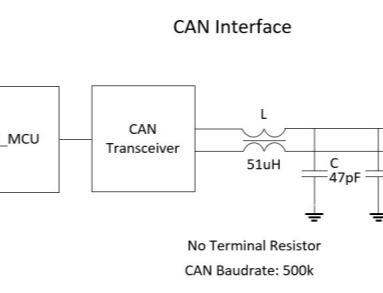
4.1 WAKE-UP INTERFACE 唤醒电路接口



4.2 REQUEST INTERFACE 使能电路接口



4.3 CAN INTERFACE CAN信号接口



- ### NOTES:
- DETAILED SPECIFICATION SEE TEM000001-PSP;
 - TERMINAL OF MATING CONNECTOR MUST BE Ag PLATED, AND WIRE SEAL SHALL BE APPLIED ACCORDING TO IP RATING REQUIREMENTS;
 - MUST BE INTSALLED BY 2PCS BOLTS SIMULTANEOUSLY, ONLY 1PC BOLT IS FORBIDDEN;
 - PRODUCT INFORMATION IS MARKED ON COVER BY LASER CODING;
 - IN THE EVENT OF CONFLICT BETWEEN THE CHINESE AND ENGLISH LANGUAGE, THE CHINESE LANGUAGE SHALL TAKE PRECEDENCE.

- ### 注释:
- 详细规格参照TEM000001-PSP;
 - 对接插件必须使用镀银端子, 导线密封胶应根据IP等级要求而选用;
 - 必须同时使用2枚螺栓进行安装, 不允许仅使用1枚螺栓;
 - 产品信息以激光打码的方式标记于封盖;
 - 如中英文内容产生歧义, 应以中文为准。

CHARACTERISTIC NAME	DRAWING SYMBOL	DESCRIPTION	(INITIAL) SHORT TERM Cpk	LONG TERM Ppk
ISO 26262 FUNCTIONAL SAFETY RELATED SPECIAL	+	A CHARACTERISTIC OF AN ITEM, ELEMENT OR PRODUCTION PROCESS FOR WHICH REASONABLY FORESEEABLE DEVIATION COULD AFFECT, CONTRIBUTE TO OR CAUSE ANY POTENTIAL REDUCTION OF FUNCTIONAL SAFETY.	≥ 1.67	≥ 1.67
CRITICAL	△	CONTROL ITEM PRODUCTS HAVE CRITICAL CHARACTERISTICS THAT MAY AFFECT SAFE VEHICLE/PRODUCT OPERATION AND/OR COMPLIANCE WITH GOVERNMENT REGULATIONS. UNIQUE SYMBOLS IDENTIFYING SAFETY AND REGULATORY CHARACTERISTICS.	≥ 1.67	≥ 1.67
SIGNIFICANT	◇	SIGNIFICANT CHARACTERISTICS ARE THOSE PRODUCT PARAMETERS AND REQUIREMENTS THAT ARE IMPORTANT FOR CUSTOMER SATISFACTION (FORM, FIT AND FUNCTION) AND FOR WHICH QUALITY PLANNING ACTIONS MUST BE ADDRESSED ON A CONTROL PLAN.	≥ 1.67	≥ 1.33
SPC STANDARD	⊙	USED TO SPECIFY ONGOING SPC METHODOLOGIES TO BE PERFORMED.	≥ 1.67	≥ 1.33
		NON-KEY CHARACTERISTIC - STANDARD DIMENSION VS. STANDARD (INCL. TOLERANCE)	FIRST ARTICLE INSPECTION OK FIRST PART	FIRST ARTICLE INSPECTION OK FIRST PART

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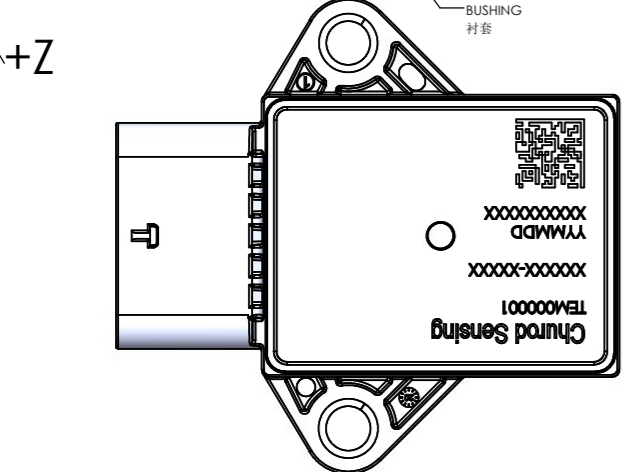
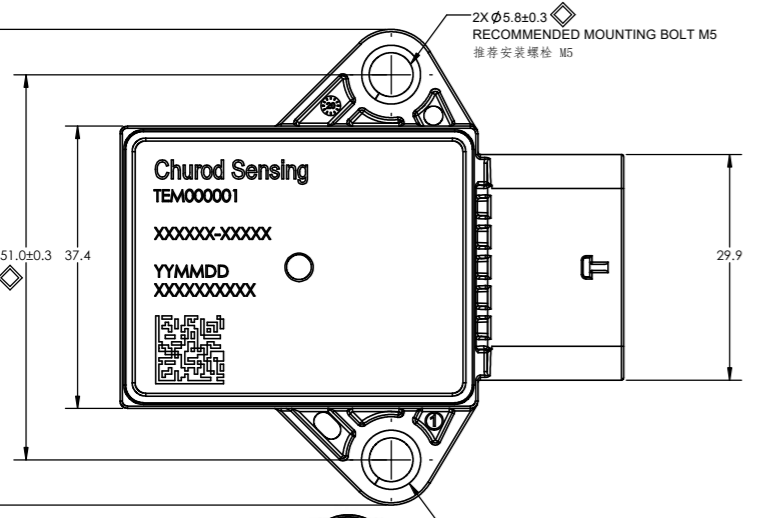
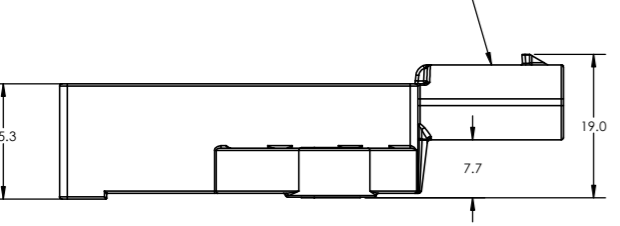
528 FANGQIAO ROAD
 XIANGCHENG DISTRICT
 SUZHOU CHINA

中汇瑞德
 CHUROD SENSING

TITLE: ENVELOPE DRAWING SMART BPS

DRAWN	JOHNSON WANG	INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS.	SIZE	NUMBER	REV
DATE	15-MAR-2022		A1	TEM000001-ENV	1
ENGINEER	JOHNSON WANG	TOLERANCES	SCALE	2:1	SHEET
DATE	15-MAR-2022	LINEAR			1 OF 1
APPROVED	JOHN XT	ANGULAR			
DATE	15-MAR-2022	±0.5			
APPROVED		±3°			
DATE					
		DO NOT SCALE DRAWING			
		METHOD THIRD ANGLE PROJECTOR			

CONNECTOR DESIGN ACCORDING TO USCAR 120-S-006-1-202 KEYING OPTION: A, TO MATE WITH TE P/N 1-1718646-1 OR 1924292-5
 电气接插件设计依据: USCAR 120-S-006-1-202 A型,
 应索料号1-1718646-1或1924292-5 配对使用



MOUNTING ORIENTATION AS ABOVE VIEW CAN MEET REQUIREMENT IN APPLICATION
 (+Z IS UPWARDLY PERPENDICULAR TO THE GROUND)
 安装方向如上图, 可以满足使用要求
 (+Z方向垂直于地平面向上)

