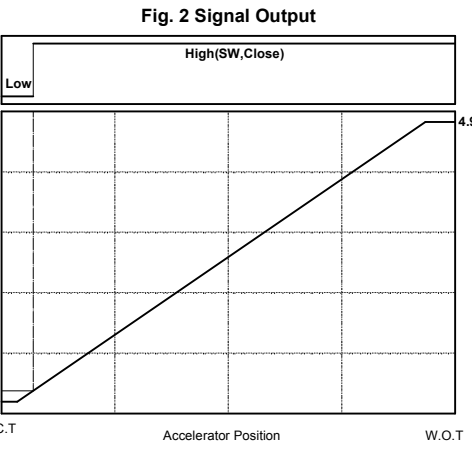
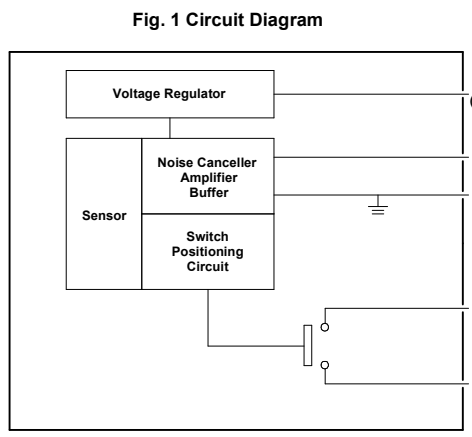
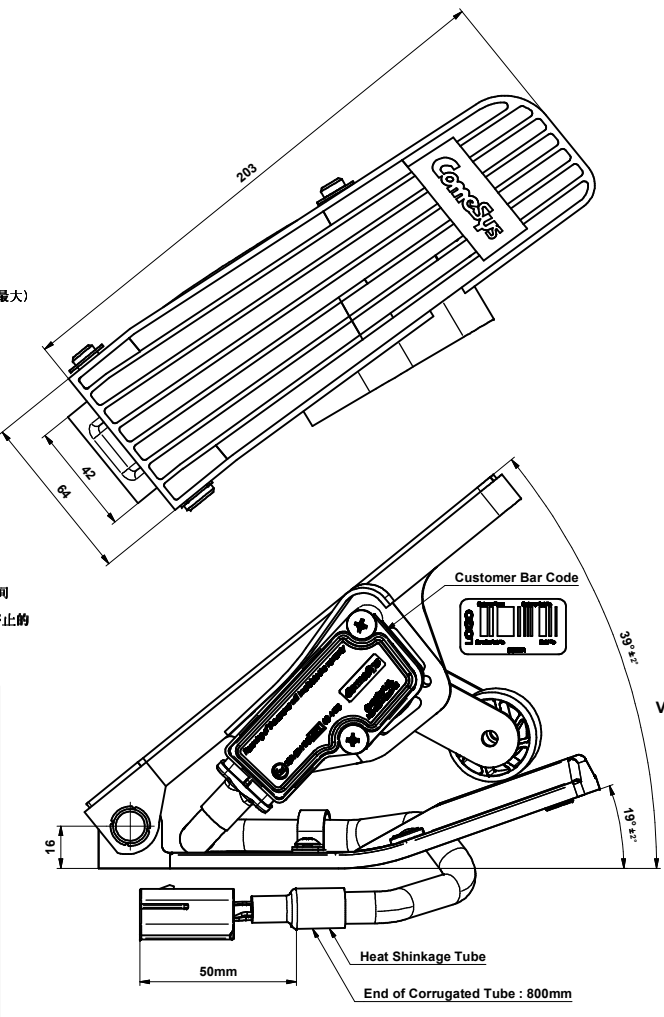
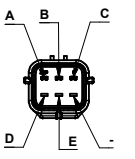


REV	DESCRIPTION	DATE	DR	RE	AP

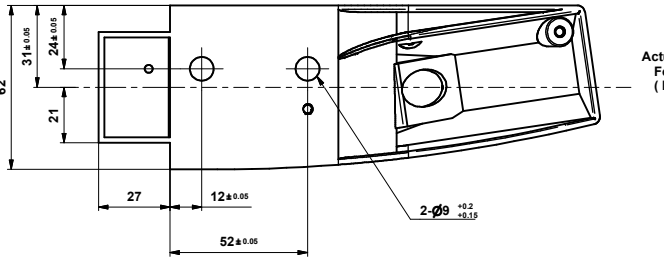
- 通用设计
 - 非接触式传感技术, 这符合满足SAE J1843的规格. 在进行国际专利.
- 机械特性
 - 一个运转状态下的踏力是在从旋回轴到150mm的地点往下踩踏板表面的结果.
 - (最小负荷: 0.9kgf(MIN), 最大负荷: 3.3kgf(MAX))
 - 损坏强度: 160kgf±5kgf的强度不会损坏踏板的任何部分.
 - 内侧与外侧的两个返回弹簧一装儿作用于把踏板踩了之后让它再回到原状态.
- 电子特性
 - 环境上的条件:
 - 运用温度: -40°C~+85°C
 - 保存温度: -40°C~+105°C
 - 电子上的特性
 - 2-1 传感成分类型
 - 2.1.1 输入电压(Vcc): 24/48 伏特 可变
 - 2.1.2 运转电流(Iop): 20mA~25mA(正常), 30mA(最大)
 - 2.1.3 通电时间: 前10分钟
 - 2.1.4 电子信号输出线: 见 Fig. 2.
 - 2.1.5 线形度: ±2%
 - 2.1.6 输出负荷: 10kohms, C=4.7nF 已试验.
 - 2-2 开关类型(IVS): Relay
 - 2.2.1 开关最大负荷电流(Isw): 1A @ 30Vdc
 - 2.2.2 最大开关电压: 250Vac, 110Vdc
 - 2.2.3 最大开关电流: 1A
 - 2.2.4 最初绝缘电阻: 在500伏特 最小1000Mohms
 - 2.2.5 开关结构: 见 Fig. 2.
 - 3.0 机械清单
 - 3-1 器具信号输出线: 17.5" ±2"
 - 4.0 电气连接
 - AMP J-系列 Connector: 6 电线的174264-2 (Cap)
 - 5.0 产地
 - Pedal Foot Plate: PA66+GF33% +其它1%
 - Pedal Bottom Plate: Aluminum (ADC12)
 - Cable: AEXF 或 AVXF (0.50mm²)
 - 6.0 耐久性
 - 将零件编号与踏板产品号码于发货之前在厂记好.
 - 7.0 耐久性
 - 以每分钟约100周期的比率在踩状态与踩足踏板的状态之间以一千万周期循环.
 - 有的耐久性, 比如在为了顺应当初条件价检查的机械上停止的状态观察.
 - 8.0 环境试验



项目	试验方法	标准
震动试验	在所有三个轴上以广泛的, 不规则的方式给20至3000Hz的震动20小时	正常运转
冲击试验	在20g的加速上被露在1ms的方式(零至最高点)	正常运转
冲突试验	在一米的高度共六次掉在柔软水泥地上	正常运转
高压试验	AP8信号: 在12伏特被露三分钟的方式 IVS信号: 在38伏特被露三分钟的方式	正常运转
温度试验	被露在-40°C~85°C的温度的方式(100周期)	正常运转
湿度试验	被露在-32°C~70°C的湿度的方式(96%)	正常运转
盐雾试验	被露在盐雾96小时的方式(JIS Z2371)	正常运转
化学试验	放在各种液体3秒钟, 在空气中曝干3分钟.	正常运转
ESD 试验	按照 IEC 61000-4-2 说明书试验	25KV (空气中放电)
EMS 试验	按照 ISO 11462-2 (2004E) 试验	100V/m



Pin Location	Description	Color
A	Power Input, Vcc	Red
B	Pedal Signal Output, Vs	Green
C	Ground (Signal)	Black
D	Switch Common	Yellow
E	FS3 (IVS3), NO	Blue



- General Layout
 - Non - Contact Sensing Technology. This drawing is satisfied with SAE J1843. International Patent Pending.
- Mechanical Conditions
 - A static pedal force is applied at a point of 150mm from the pedal pivot axis and perpendicular to the pedal surface.
 - (Initial Load : 0.9kgf(MIN), Full Throttle : 3.3kgf(MAX))
 - End-Break force : 160kgf± 5kgf will not damage any pedal parts.
 - Two return spring, inner and outer spring, incorporated to return pedal to idle on release of actuation force.
- Electrical Conditions
 - 1.0 Environmental Conditions:
 - Operating Temperature : -40°C ~ +85°C
 - Storage Temperature : -40°C ~ +105°C
 - 2.0 Electrical Characteristics
 - 2-1 Type of sensing element
 - 2.1.1 Input Voltage(Vcc): 24/48 Volt Variable
 - 2.1.2 Operation Current(Iop): 20mA ~ 25mA(Normal), 30mA(Max)
 - 2.1.3 Reverse Polarity: Withstand 10min
 - 2.1.4 Electrical Travel: See Fig 2.
 - 2.1.5 Independent Linearity: ±2%
 - 2.1.6 Signal Load : 10kohms, C=4.7nF Tested.
 - 2-2 Type of switch(IVS): Semiconductor Relay Switch
 - 2.2.1 Switch Working Current Range : 0.05mA - 12mA Max Current 20mA
 - 2.2.2 Switch Operation Current (Isw) : 10mA
 - 2.2.3 Switch Resistance : 1KΩ ± 10% at switch closed, ≥ 100MQ at switch open
 - 2.2.4 Switch Pararity : No porarity
 - 2.2.5 Switch Voltage : 5V, 12V, 24V
 - 2.2.6 Switch Position
 - Switch Position shall be discussed at PO and fixed at factory before delivery. See Fig.2
 - 3.0 Mechanical Specifications
 - 3-1 Mechanical Travel : 17.5" ±2"
 - 4.0 Electrical Connection
 - AMP J - Series Connector : for 6 wire 174264 - 2 (CAP)
 - 5.0 Material
 - Pedal Foot Plate : PA66+GF33%+Anti Static
 - Pedal Bottom Plate : Aluminum (ADC12)
 - Cable : AEXf 或 AVXF (0.50mm²)
 - 6.0 Marking
 - Sensor serial number and pedal production number shall be indicated and recorded before despatch at factory.
 - 7.0 Durability
 - Subject to over 10million cycles between idle and full throttle position at a rate of approx. 100 cycles per minute.
 - Any wear observed, e.g., on the mechanical stops checked to be in compliance with the initial condition values.
 - 8.0 Environment Test

Item	Test Method	Decision Standard
Vibration Test	Subject to broadband random vibration between 20 and 2000Hz for 20hours in all 3 axis.	Normal Operation
Shock Test	After Exposed to acceleration 20g (ZERO to PEAK) for 11ms	Normal Operation
Impact Test	Subject to a drop test onto a smooth concrete floor from a height of one meter a total of 6 times	Normal Operation
Temp. Test	After Exposed to -40°C ~ 85°C (100 cycles)	Normal Operation
Humidity Test	After Exposed to -32°C ~ 70°C (96%)	Normal Operation
Salt Fog Test	After Exposed to Salt Fog for 96 hours (JIS Z2371)	Normal Operation
Chemical Test	Exposed to 3 second dipping in each of the test fluids, followed by a 3 minutes air dry	Normal Operation
ESD Test	Tested in accordance with IEC 61000-4-2 Spec	25KV(Air Discharge)
EMS Test	As per ISO 11462-2 (2004E)	100V/m

ComeSys Control & Measurement Systems Limited

Electronic Accelerator Pedal Assy (MTZ3)

Customer Name	Curts 1244D
Customer Part No.	FZ3-122-131C
Sheet	1 of 1