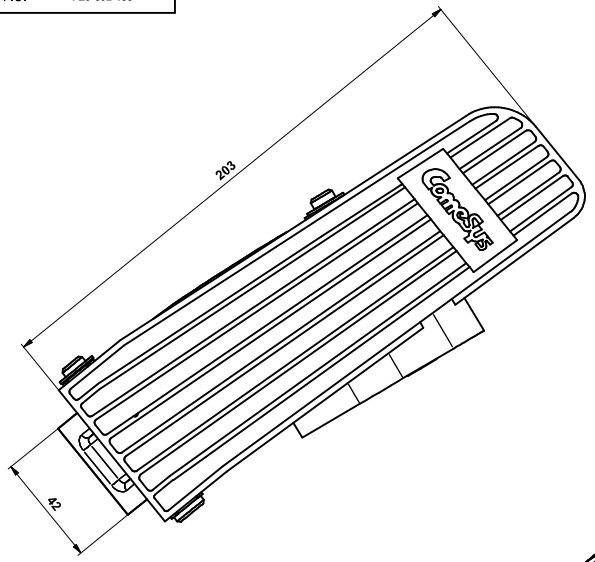
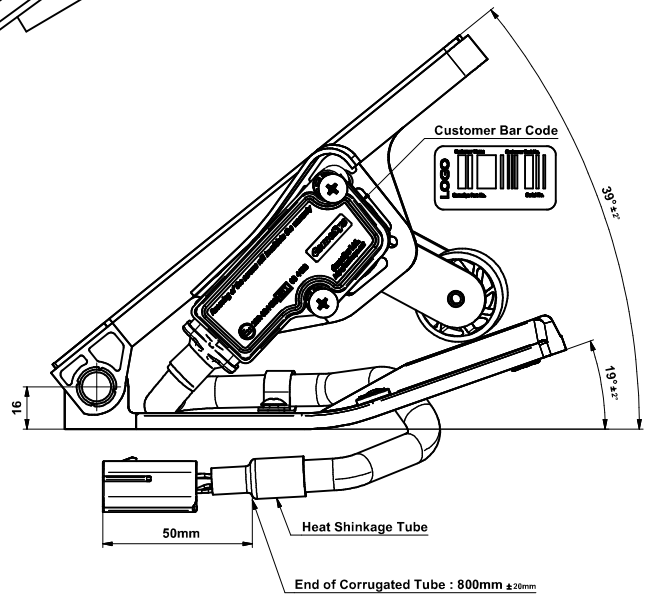
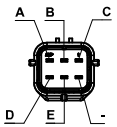
Part No. FZ3-532-133







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

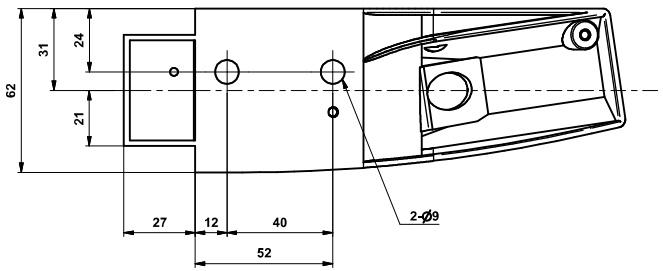


Fig. 1 Circuit Diagram

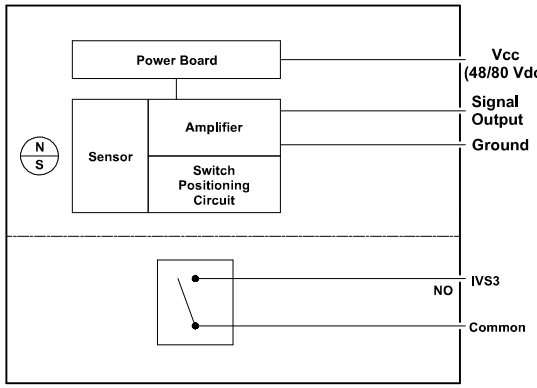


Fig. 2 Signal Output

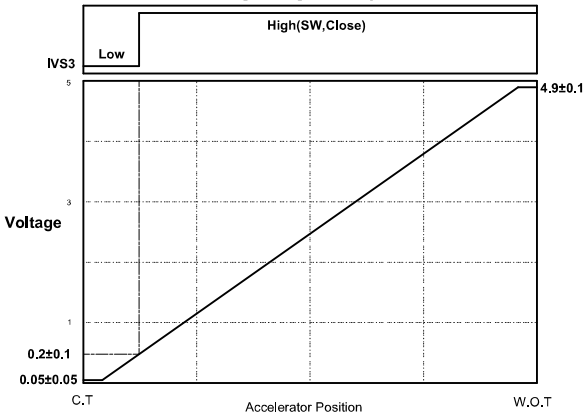
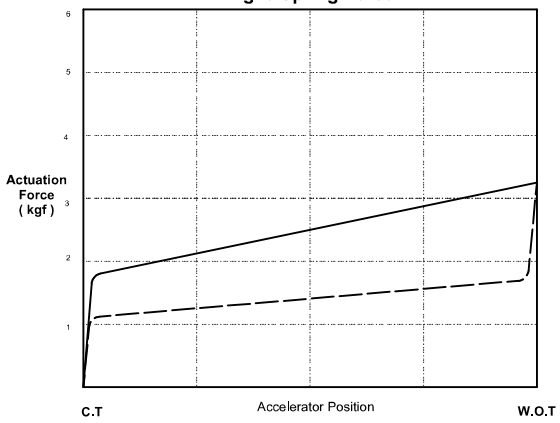


Fig. 3 Spring Force



REVISION HISTORY					
REV	DESCRIPTION	DATE	DR	RE	AP

1. General Layout
   Non - Contact Sensing Technology.
   This drawing is satisfied with SAE J1843.
   International Patent Pending.
2. 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 sping, incorporated to return pedal to idle on release of actuation force.
3. 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) : 48/80 Vdc
   2.1.2 Operation Current(Iop) : 25mA (Min), 30mA(Max)
   2.1.3 Reverse Porarity : 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 : Micro Switch (OMRON : SS-5)
   2.2.1 Switch max Load Current(Isw) : 50mA @ 125Vdc
   2.2.2 Max Switching Voltage : 125Vdc
   2.2.3 Max Switching Current : 50mA
   2.2.4 Initial Insulation Resistance : Min 1000Ω at 500Vdc
   2.2.5 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. Electrical Connection
   AMP J - Series Connector : for 6 wire 174264 - 2 (CAP)
5. Material
   Pedal Foot Plate : PA66+GF33%+Anti Static
   Pedal Bottom Plate : Aluminum (ADC12)
   Cable : AEXf or AVXf (0.50㎟)
6. Marking
   Sensor serial number and pedal production number shall be indicated and recorded before despatch at factory.
7. Durability
   Subject to over 4 million 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. 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 11452-2 (2004E)	100V/m

ComeSys Control & Measurement Systems Limited

DR	D.H.Shin	08.May.12	Do Not Scale
RE	J.I.Kim	308.May.12	Third Angle Projection
AP	H.M.Lee	08.May.12	Sheet 1 of 1

Name: Electronic Accelerator Pedal Ass'y
Application Model
Material: -
Part & Surface Treatment: -
Weight: - g
Heat Treatment: -
Customer Part No.: -
ComeSys Part No.: FZ3-532-133
Issued: 0