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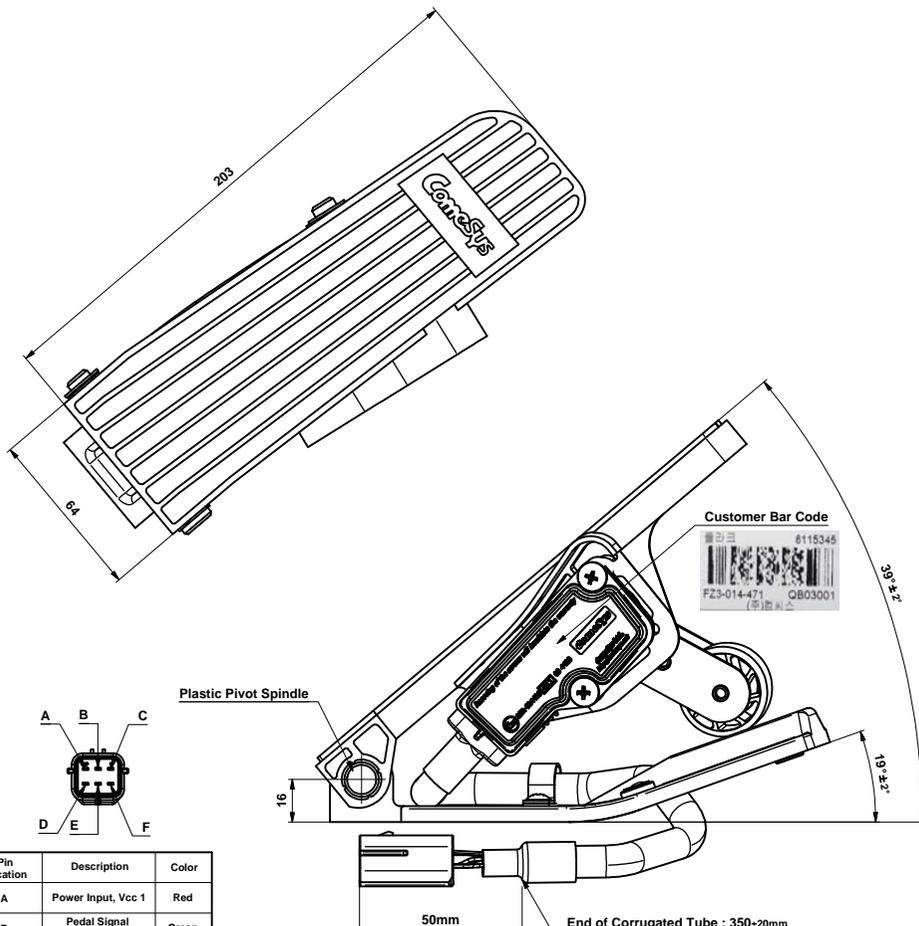


Fig. 1 Circuit Diagram

- General Layout
  - Non - Contact Sensing Technology.
  - This drawing is satisfied with FMVSS124.
  - 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.
- 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) : 5Vdc ± 2%
    - 2.1.2 Operation Current(Iop) : 10mA(Normal), 11mA(Max) / Channel
    - 2.1.3 Reverse Polarity : withstand 10mins
    - 2.1.4 Electrical Travel : See Fig. 2.
    - 2.1.5 Independent Linearity : ±2%
    - 2.1.6 Signal Load : 10kohms, C=4.7nF Tested.
  - 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+GF30%
    - Pedal Bottom Plate : Aluminum (ADC12)
    - Cable : AEXf or AVXf ( 0.50mm )
  - 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

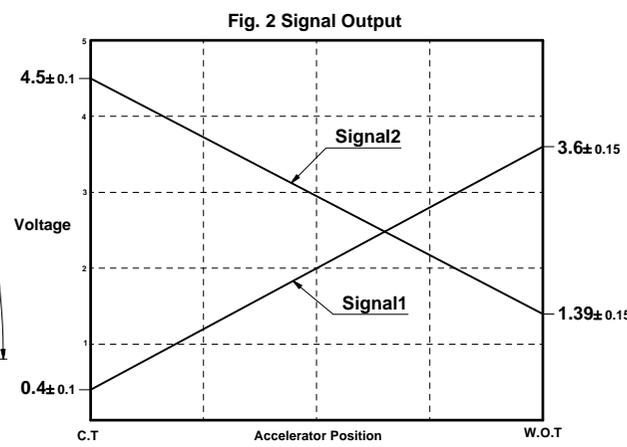


Fig. 2 Signal Output

Pin Location	Description	Color
A	Power Input, Vcc 1	Red
B	Pedal Signal Output, Vs 1	Green
C	Ground ( Signal 1 )	Black
D	Power Input, Vcc 2	White
E	Pedal Signal Output, Vs 2	Orange
F	Ground ( Signal 2 )	Violet

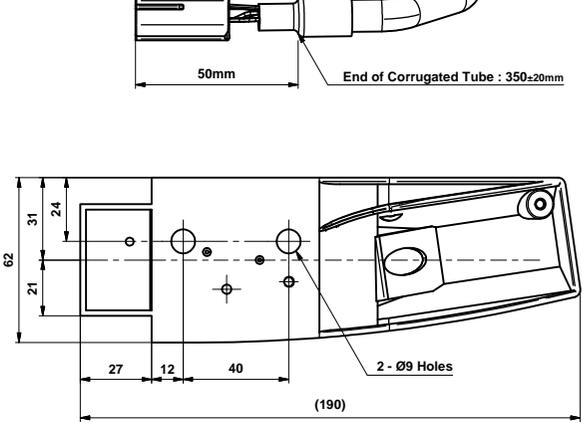


Fig. 3 Spring Force

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 1ms at Acceleration 20g(ZERO to PEAK)	Normal Operation
Impact Test	Subject to a drop test onto a smooth concrete floor from a height of one meter a total of 6 time	Normal Operation
High voltage Test	APS Signal : After Exposed 3min. at 12Volts IVS Signal : After Exposed 3min. at 38Volts	Normal Operation
Temp. Test	After Exposed -40°C - 85°C (100 cycles)	Normal Operation
Humidity Test	After Exposed at -32°C - 70°C (96%)	Normal Operation
Salt Fog Test	After Exposed 96 Hours at Salt Fog (JIS Z2371)	Normal Operation
Chemical Test	Exposed to 3 second dips on each of the following 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

		Name: Electric Accelerator Pedal Ass'y (MTF3)	
Application Model: ACCELERATOR ASS'Y-5VDC.S40L-T4		Material:	
Weight:		Heat Treatment:	
Customer Part No.: 8115345		ComeSys Part No.: FZ3-014-471	
Date: 03.Feb.14		Sheet 1 of 1	