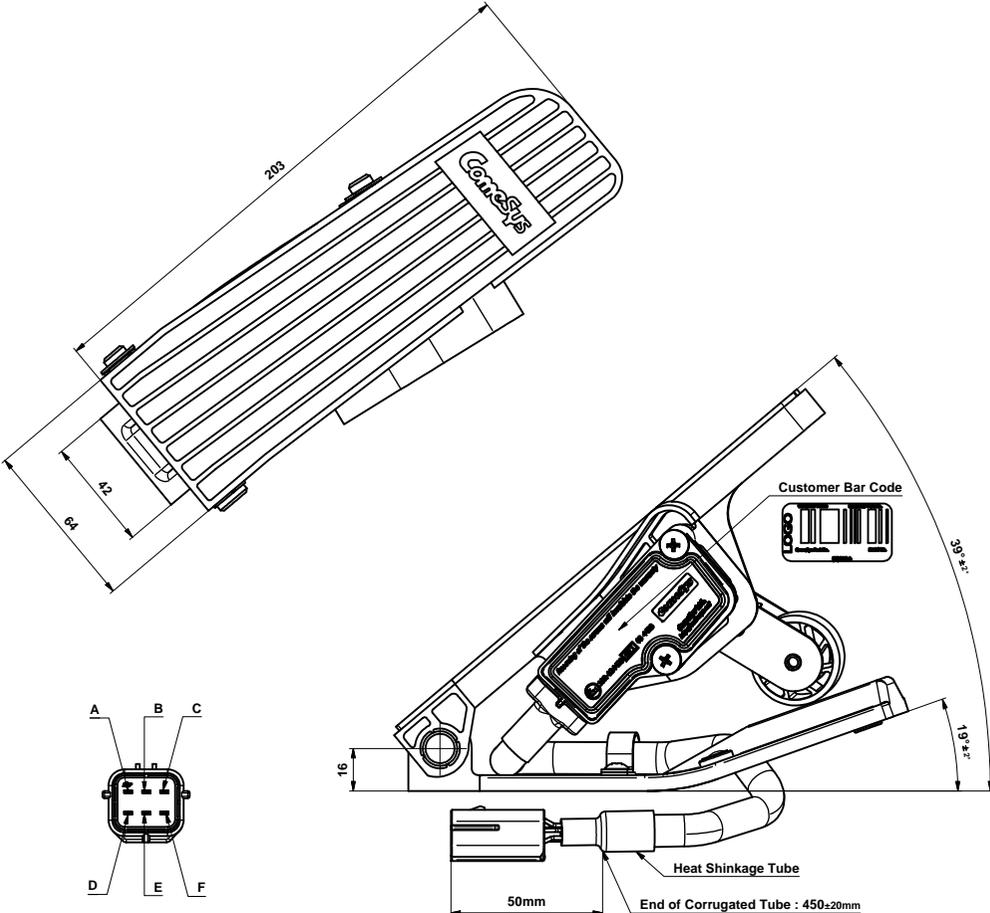


REVISION HISTORY						
REV	DESCRIPTION	DATE	DR	RE	AP	
0	Issued	27.Sep.16	S.H.Park	J.I.Kim	H.M.Lee	



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

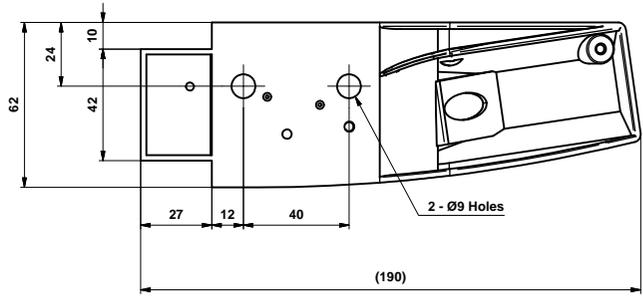


Fig. 1 Circuit Diagram

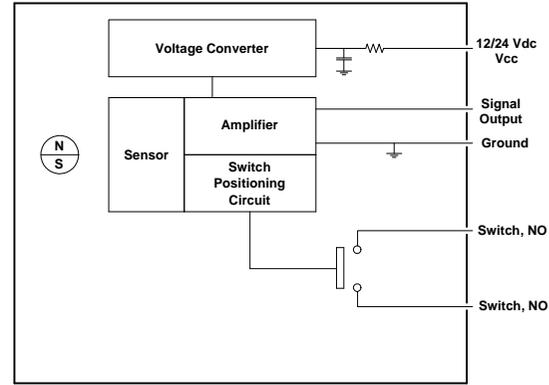


Fig. 2 Signal Output

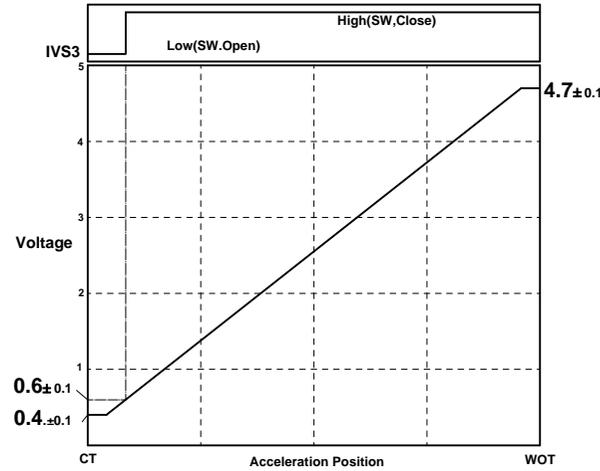
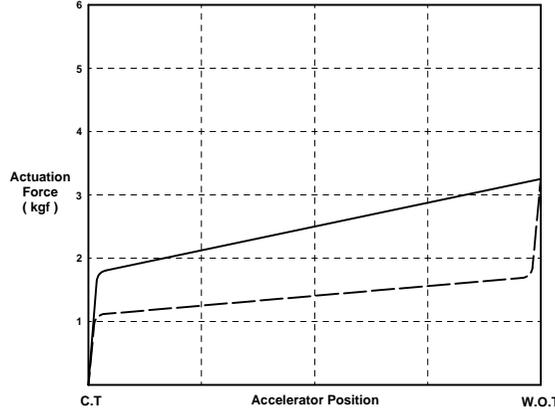


Fig. 3 Spring Force



- 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
  - Environmental Conditions:
    - Operating Temperature : -40-C ~ +85-C
    - Storage Temperature : -40-C ~ +105-C
  - Electrical Characteristics
    - 2-1 Type of sensing element
      - 2.1.1 Input Voltage(Vcc) : 12/24Vdc
      - 2.1.2 Operation Current(Iop) : 15mA (Min), 20mA(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) : MOSFET switch(Semiconductor Relay Switch)
      - 2.2.1 Switch Continuous Load Current(Io) : Max 60mA ( @ 24V )
      - 2.2.2 Switch Operating Current (IF) : Typ. 7.5mA MAX 25mA
      - 2.2.3 Switch Polarity : No polarity
      - 2.2.4 Switch Load Voltage : 5V, 12V, 24V, 48V, 80V
      - 2.2.5 Switch Position
        - Switch Position shall be discussed at PO and fixed at factory before delivery. See Fig.2
- Mechanical Specifications
  - 3-1 Mechanical Travel : 17.5°±2°
- Electrical Connection
  - AMP J - Series Connector : for 6 wire 174264 - 2 ( CAP )
- Material
  - Pedal Foot Plate : PA66+GF30%+Anti Static
  - Pedal Bottom Plate : Aluminum ( ADC12 )
  - Cable : AEXf or AVXf ( 0.50mm )
- Marking
  - Sensor serial number and pedal production number shall be indicated and recorded before despatch at factory.
- 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.
- 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
Drop Test	Floor : Concrete, Height : 1 meter, Cycle : 6 Drops	Normal Operation
High voltage Test	APS Signal : After Exposed to 12Volts for 3min IVS Signal : After Exposed to 38Volts for 3min	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 96 Hours (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.	15KV(Air Discharge)
EMS Test	As per ISO 11452-2 (2004E)	100V/m

ComeSys Control & Measurement Systems Limited		Part No.	Electronic Accelerator Pedal Assy (MTF3)
<small>Control &amp; Measurement Systems Limited The design and manufacture of this drawing are the sole property of ComeSys Ltd. Any reproduction in any form without the written permission of ComeSys Ltd. is prohibited. http://comesys.net</small>		Application Model: Kunshan Bennett Cleaning Machine	
Rev	001	Material	Part & Surface Treatment
DR	S.H.Park 27.Sep.16	Weight	Heat Treatment
RE	J.I.Kim 27.Sep.16	Customer Part No.	
AP	H.M.Lee 27.Sep.16	Sheet 1 of 1	FZ3-152-576 0