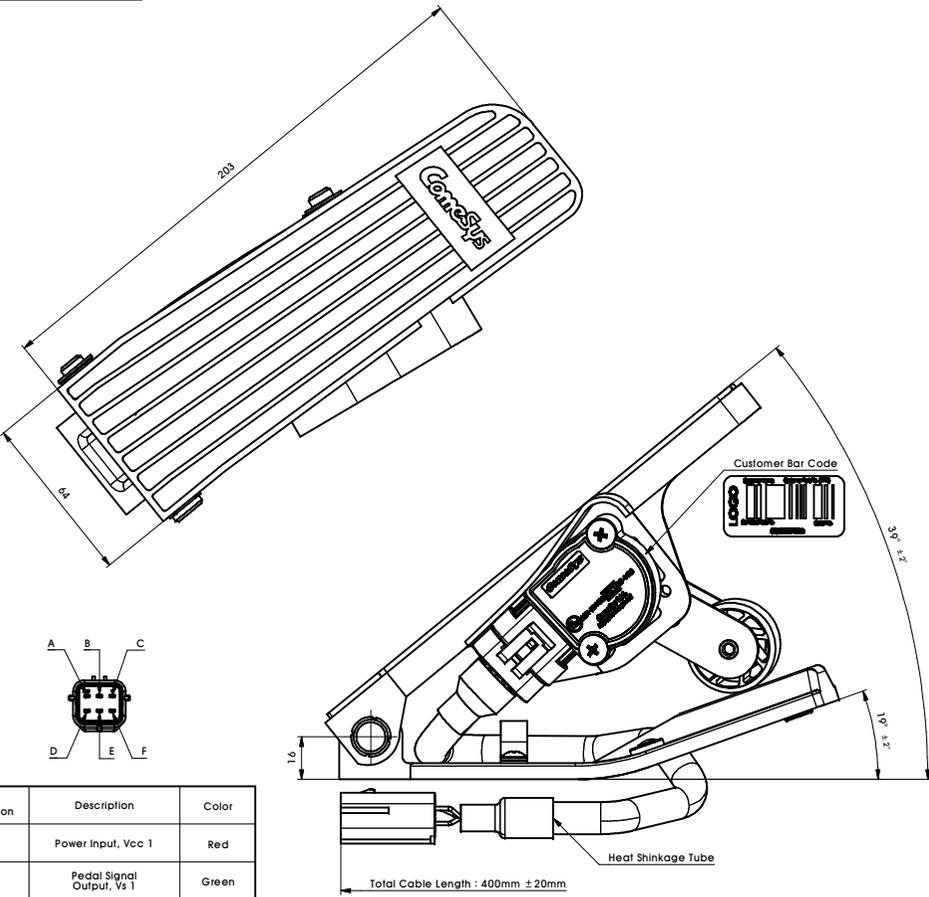


REVISION HISTORY						
REV	DESCRIPTION	DATE	DR	RE	AP	
0	Issued	26.Jan.18	S.W.Kang	J.I.Kim	H.M.Lee	
1	Signal Join (Vcc1+Vcc2 , Gnd1+Gnd2)	19.Mar.18	M.J.Kim	J.I.Kim	H.M.Lee	



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

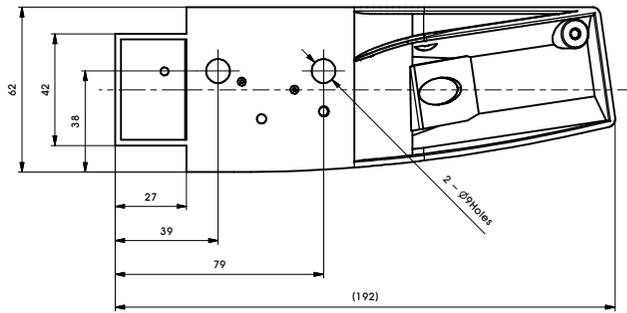


Fig. 1 Circuit Diagram

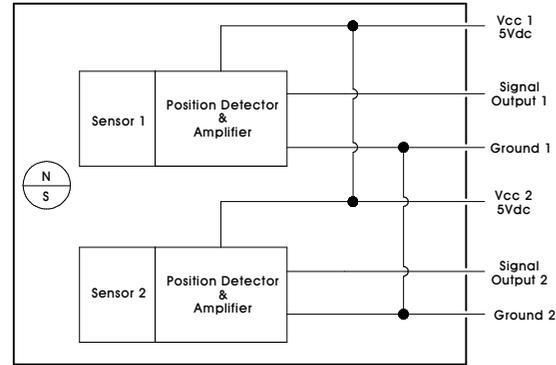


Fig. 2 Signal Output

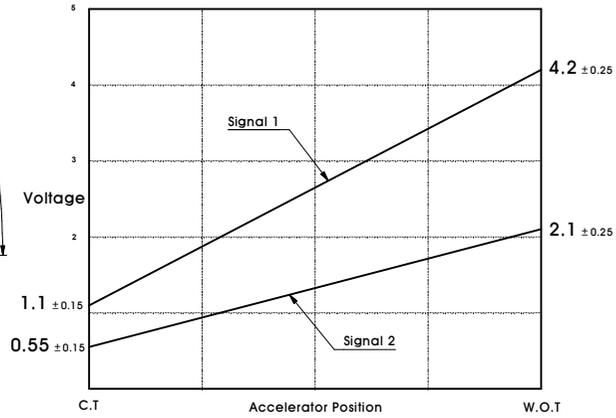
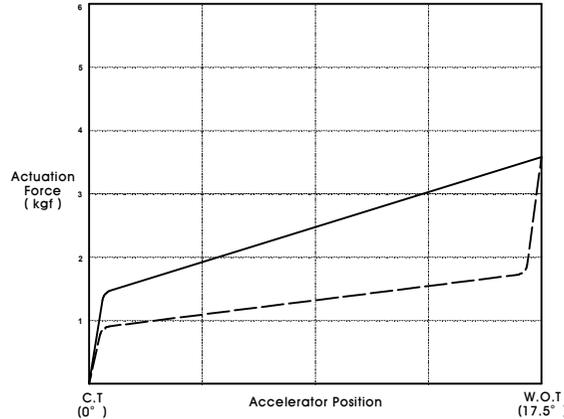


Fig. 3 Spring Force



- 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.
 - Two return Spring, inner and outer spring, incorporated to return pedal to idle release actuation force.
- Electrical Conditions
 - Environmental Conditions:
 - Operating Temperature : -40° C ~ +85° C
 - Storage Temperature : -40° C ~ +105° C
 - Electrical Characteristics
 - Type of sensing element
 - Input Voltage(Vcc) : 5Vdc ± 2%
 - Ratiometric Operational Input Range : 4.5 ~ 8V
 - Operation Current(Iop) : 16mA(Normal), 20mA(Max)
 - Reverse Pararity : Withstand 10min
 - Electrical Travel : See Fig 2.
 - Independent Linearity : 2%
 - Signal Load : 10kohms, C=4.7nF Tested.
- Mechanical Specifications
 - Mechanical Travel : 17.5 ± 2°
- Electrical Connection
 - AMP J - Series Connector : for 6 wire 174264 - 2 (CAP)
- Material
 - Pedal Foot Plate : PA66+GF30%
 - Pedal Bottom Plate : Aluminum (ADC12)
 - Cable : AEXf or AVXf (0.50mm²)
- 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 9G vibration between 10 and 200Hz for 8hours(4, 2, 2hour) 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
High voltage Test	APS Signal : After Exposed to 12Volts 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 for 96 Hours (JIS 22371)	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 Spac	25KV(Air Discharge)
EMS Test	As per ISO 11452-2 (2004E)	100V/m

ComeSys Control & Measurement Systems Limited		Name	
Application Model		Electronic Accelerator Pedal Assy_MTF3.	
Manufacturer		현대용공업	
Weight		-	
Heat Treatment		-	
Customer Part No.		21FT-99201	
Company Part No.		FY3-016-13	
Sheet 1 of 1		1	