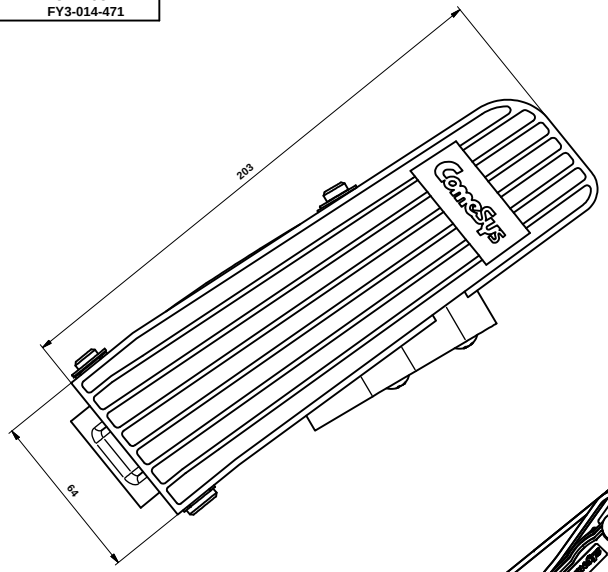
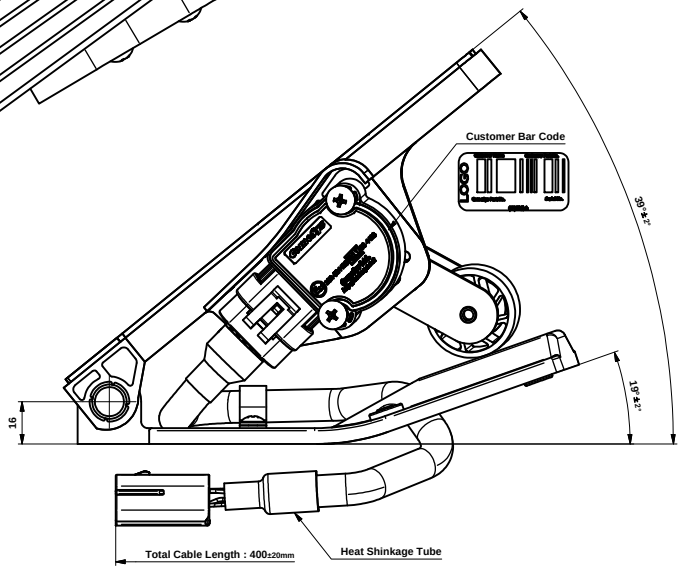
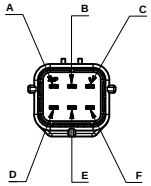
Part No. 8124951
FY3-014-471







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

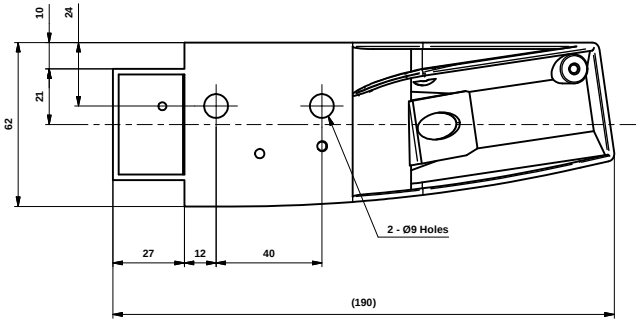


Fig. 1 Circuit Diagram

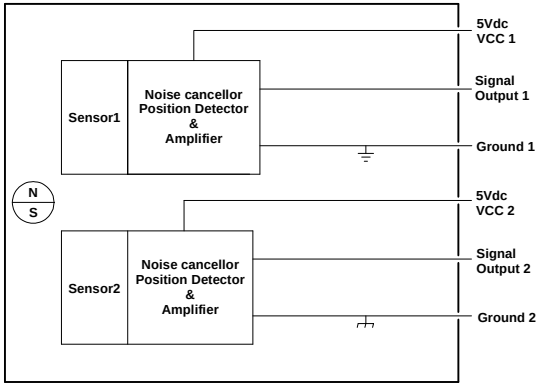


Fig. 2 Signal Output

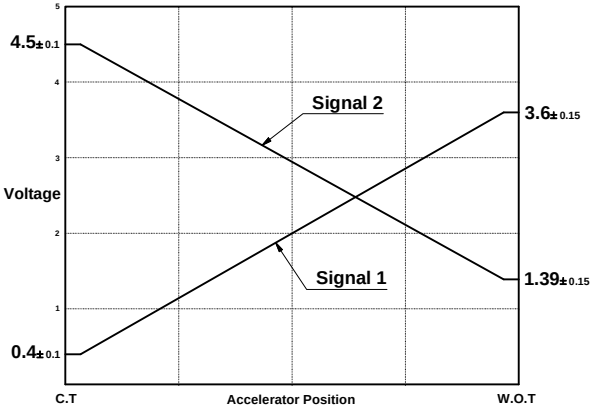
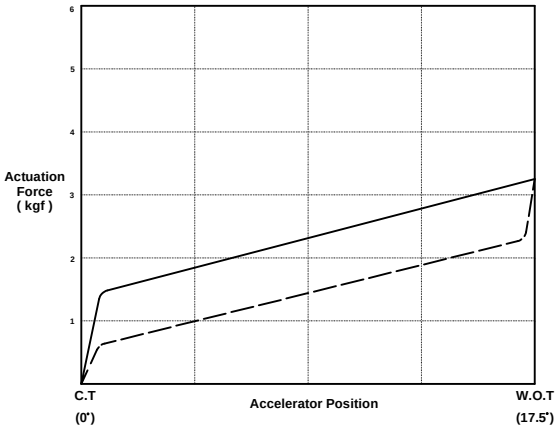


Fig. 3 Spring Force



REVISION HISTORY					
REV	DESCRIPTION	DATE	DR	RE	AP

1. General Layout
Non - Contact Sensing Technology.
This drawing is satisfied with FMVSS124.
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 spring, incoporated to return pedal to idle release 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) : 5Vdc ± 2%
Ratiometric Operational Input Range : 4.5 ~ 8V
2.1.2 Operation Current(Iop) : 8mA(Normal), 10mA(Max) / Channel
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.

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%+Anti Static
Pedal Bottom Plate : Aluminum (ADC12)
Cable : AEXf or AVXf (0.50㎟)
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 Enviornment 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
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 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

ComeSys Control & Measurement Systems Limited

General Tolerance For Machining (KS B 0412)

0.5~3mm	±0.2	120~315mm	±1.2
3~6mm	±0.3	315~1000mm	±2
6~30mm	±0.5	1000~2000mm	±3
30~120mm	±0.8	2000~4000mm	±4

Property & Confidence
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http://comesys.net

DR	S.H.Sung	24.Feb.15	Do Not Scale
RE	J.I.Kim	24.Feb.15	Third Angle Projection
AP	H.M.Lee	24.Feb.15	Sheet 1 of 1

Name: Electronic Accelerator Pedal Ass'y _MTF3
Application Model: Clark
Material: ------
Paint & Surface Treatment: ------
Weight: ------ g
Heat Treatment: ------
Customer Part No.: 8124951
ComeSys Part No.: FY3-014-471
Issued: 0