

REV	DESCRIPTION	DATE	DR	RE	AP
1	Customer Part No. Change 8034436 → 8113852	16.Oct.13	S.H.Sung	J.I.Kim	H.M.Lee

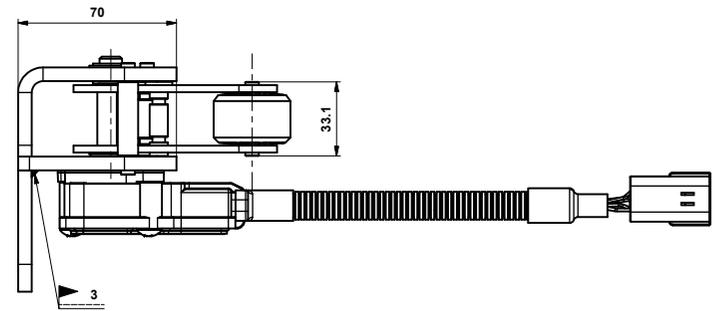
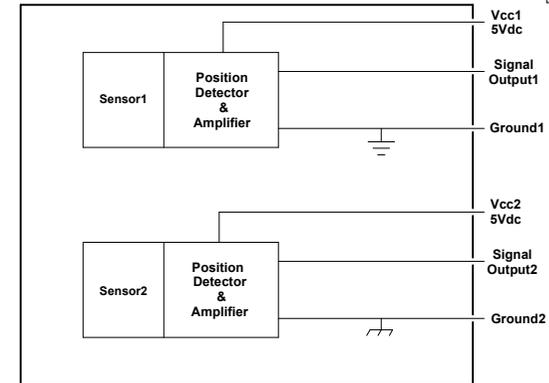


Fig. 1 Circuit Diagram



- General Layout**
Non Contact Sensing has been applied.
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 : 2.0kgf(MIN), Full Throttle : 4.0kgf±0.5kgf(MAX))
- End-Break force : 160kgf±5kgf will not damage any pedal parts.
- Two return springs, 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**
 - Type of sensing element
 - Input Voltage(Vcc) : 5Vdc±2%
 - Operation Current(Iop) : 10mA(Normal), 11mA(Max) / Channel
 - Reverse Polarity : Withstand 10min
 - Electrical Travel : See Fig 2
 - Independent Linearity : ±2%
 - Signal Load : 10kohms,C=4.7nF Tested.
- Mechanical Specifications**
 - Mechanical Travel : 41°±1°
- Electrical Connection**
AMP J - Serise Connector : for 6 wire 174264 - 2 (Cap)
- Material**
Pedal Housing : SPHC or SPCC (Zn Plating : Yellow)
Pedal Sensor Spindle, Roller Pin : SUS303f
Cable : AVXF, AEX(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**

Fig 2. Signal Output

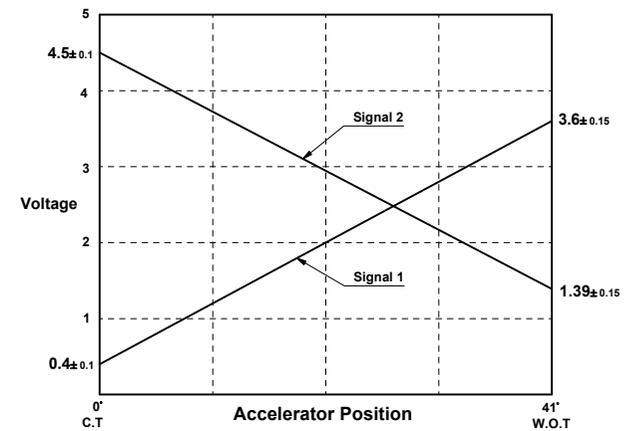
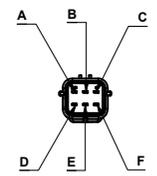
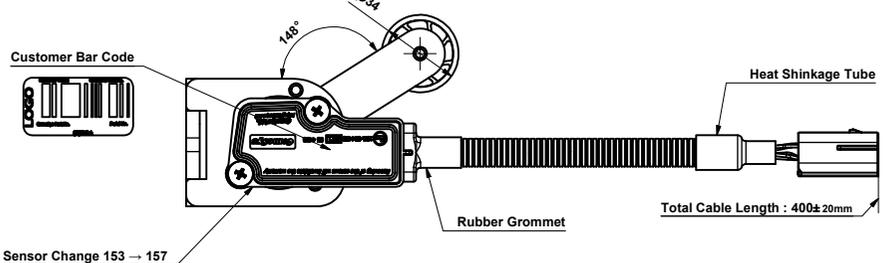
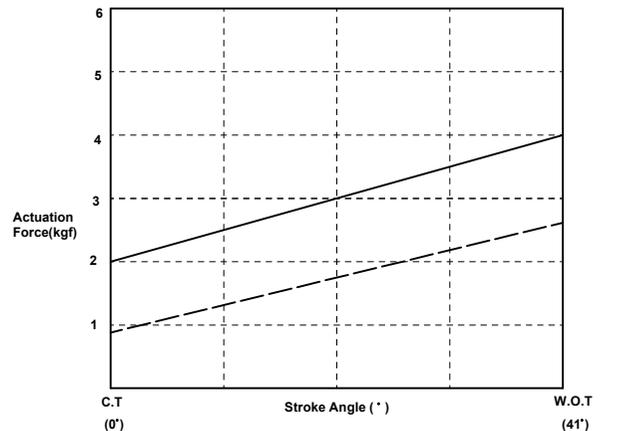
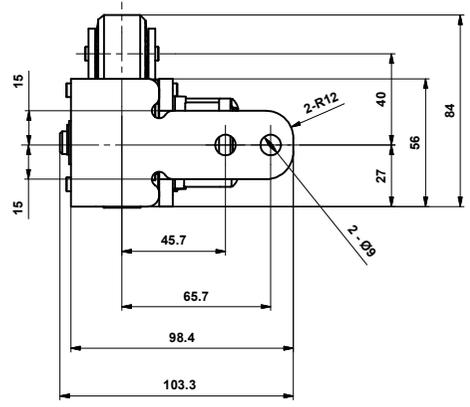


Fig3. Pedal Force



Pin Location	Description	Color
A	Power Input1, Vcc1	Red
B	Pedal Signal Output1, Vs 1	Green
C	Ground1 (Signal1)	Black
D	Power Input2, Vcc2	White
E	Pedal Signal Output2, Vs 2	Orange
F	Ground2 (Signal2)	Violet



ComeSys Control & Measurement Systems Limited		Name: Electric Controller Pedal Assembly_MTF12	
Application: Clark Tier-4(L)		Material: Paint & Surface Treatment	
Weight: _____		Heat Treatment: _____	
Customer Part No. 8113852		Drawing No. FZ12-014-47	
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