

FOOT PEDALS



CURTIS

MODEL FP

FP-FCV



FP-FMV



FP-LCV



FP-SMV



FP-SCV



DESCRIPTION

Curtis Model FP foot pedals are designed and manufactured to the exacting requirements of TS16949 to achieve unprecedented reliability.

APPLICATION

Curtis Model FP foot pedals are ideal for use with electronic vehicle controllers in material handling, construction, airport, golf, sweeper/scrubber, utility, Light-On-Road and general industrial vehicles.

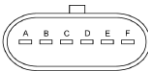
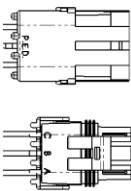

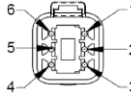
FEATURES

- Modular design combines standard sensors (resistive or Hall Effect) with flexible mechanical designs to provide solutions for every application.
- Wide temperature range and throttle sensor protection of IP66 allows reliable use of electronic control in harsh industrial vehicle applications.
- Metal and rugged thermoplastic composite versions available to meet the specific cost and performance requirements of each application.
- Multiple pedal angles and mounting configurations (floor, suspended, flush) allow use in wide range of vehicle cab styles and sizes.
- 0–5 Volt operation allows easy integration with existing Curtis and other vehicle controllers.
- Integrated Packard connector eases installation, eliminates historical wiring problems and lowers production costs. A Packard-to-Deutsch adaptor (Curtis Part Number 18140900-0001) is also available.
- SAE J1113 Category 4 compliance for EMI allows safe and reliable use in applications with severe electrical noise.
- Dual, ratiometric or switched (IVS - Idle Validation Switch) outputs ensure safe vehicle and throttle operation.
- Compliance to Federal Motor Vehicle Safety Standard (FMVSS) 124 (return-to-idle) and 302 (flammability) ensure compliance to on-road safety standards.

www.curtisinstruments.com

MODEL FP

SPECIFICATIONS

Output Type	Pedal Style	Connector	Pin	Description	Mating Connector
Dual Ratiometric	FCV, LCV, SCV, SMV		A	APS1	Packard Metri-Pack Series 150 Housing P/N: 12066317 Terminal P/N: 12103881
			B	GND1	
			C	VCC1 (+5v)	
			D	VCC2 (+5v)	
			E	GND2	
			F	APS2	
	FMV		A	APS1 GND - White	Connector P/N: 12010717
			B	APS1 Signal - Black	
			C	APS1 Supply (+5V) - Red	
			A	APS2 Signal - Orange	Connector P/N: 12015793
			B	APS2 GND - Blue	
			C	APS2 Supply (+5V) - Green	
Switched	FCV, LCV, SCV, SMV		A	APS Signal	Packard Metri-Pack Series 150 Housing P/N: 12066317 Terminal P/N: 12103881
			B	APS GND	
			C	APS Supply (+5V)	
			D	IVS (Normally Open)	
			E	IVS Supply (+12V)	
			F	Unused	
	FMV		1	IVS Signal - Green	Deutsch "DT" Connector Body P/N: DT04-6P Wedge Lock P/N: W6P Pin Contact P/N: 460-202-1631
			2	IVS Supply (+12V) - Blue	
			3	Unused	
			4	APS GND - White	
			5	APS Supply (+5V) - Red	
			6	APS Signal - Black	

Absolute Maximum Ratings

Electrical

Supply Voltage (Vcc)	5.5 VDC
Output Current (APS)	30 mA (switched output) 10 mA (dual output)
Output Voltage (IVS)	32 VDC (switched output only)
Output Current (IPS)	35 mA (switched output only)
APS Short Circuit to Ground	20 minutes
APS Short Circuit to Vcc	20 minutes

Mechanical

Static Load Limit	489 N (Model SMV) 1500 N (Model FMV) 1560 N (Models FCV, LCV, SCV)
Full Stroke Cycles	3 million

MODEL FP

SPECIFICATIONS *continued*

Environmental

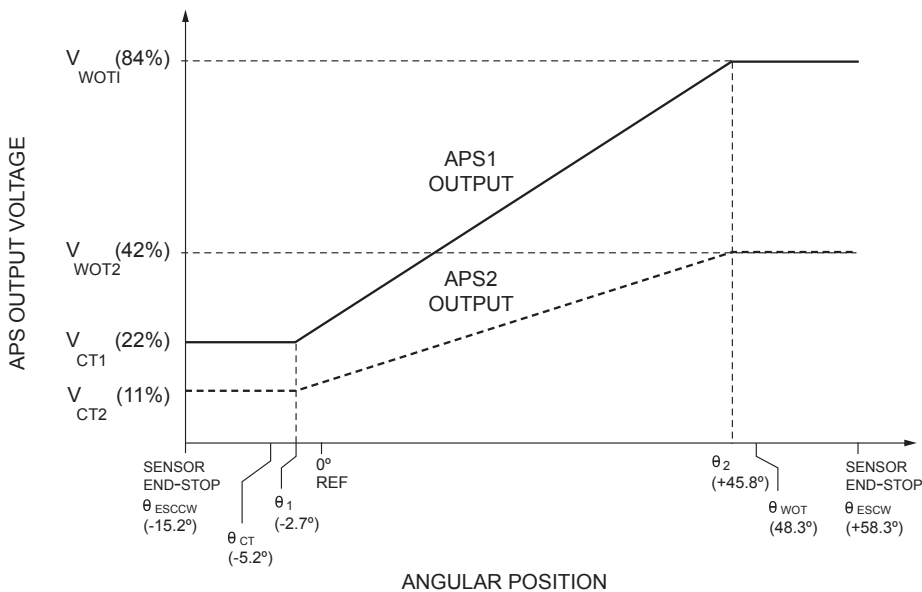
Operating Temperature Range	-40°C to +85°C
Thermal Cycle/Stress	SAE J1455, -40°C to +85°C
Thermal Shock	-40°C to +85°C
Humidity	120 hour exposure at 95% from +27°C to +75°C
Vibration	Random broadband 5-500 Hz, 4g
Shock	SAE J1455, 1 meter drop to concrete
Dust Exposure	24 Hour exposure, pedals cycled
Pressure Wash	Water: 1000 psi, +75°C, 40 minutes, 0.05 rpm Detergent: 250 psi, +75°C, 40 minutes, 0.05 rpm
Chemical Exposure	Diesel Fuel, Brake Fluid, Antifreeze, Plastic Protectant

Regulatory

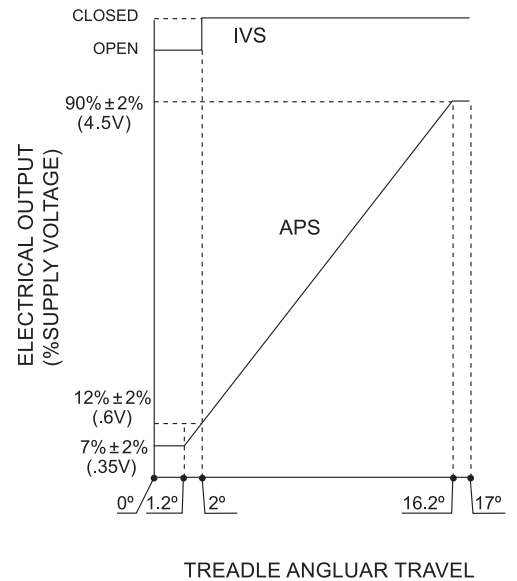
Return-to-Idle Certification	FMVSS-124
Flammability	FMVSS-302

Typical Output Characteristics

Dual, Ratiometric Output Version



Switched Output Version



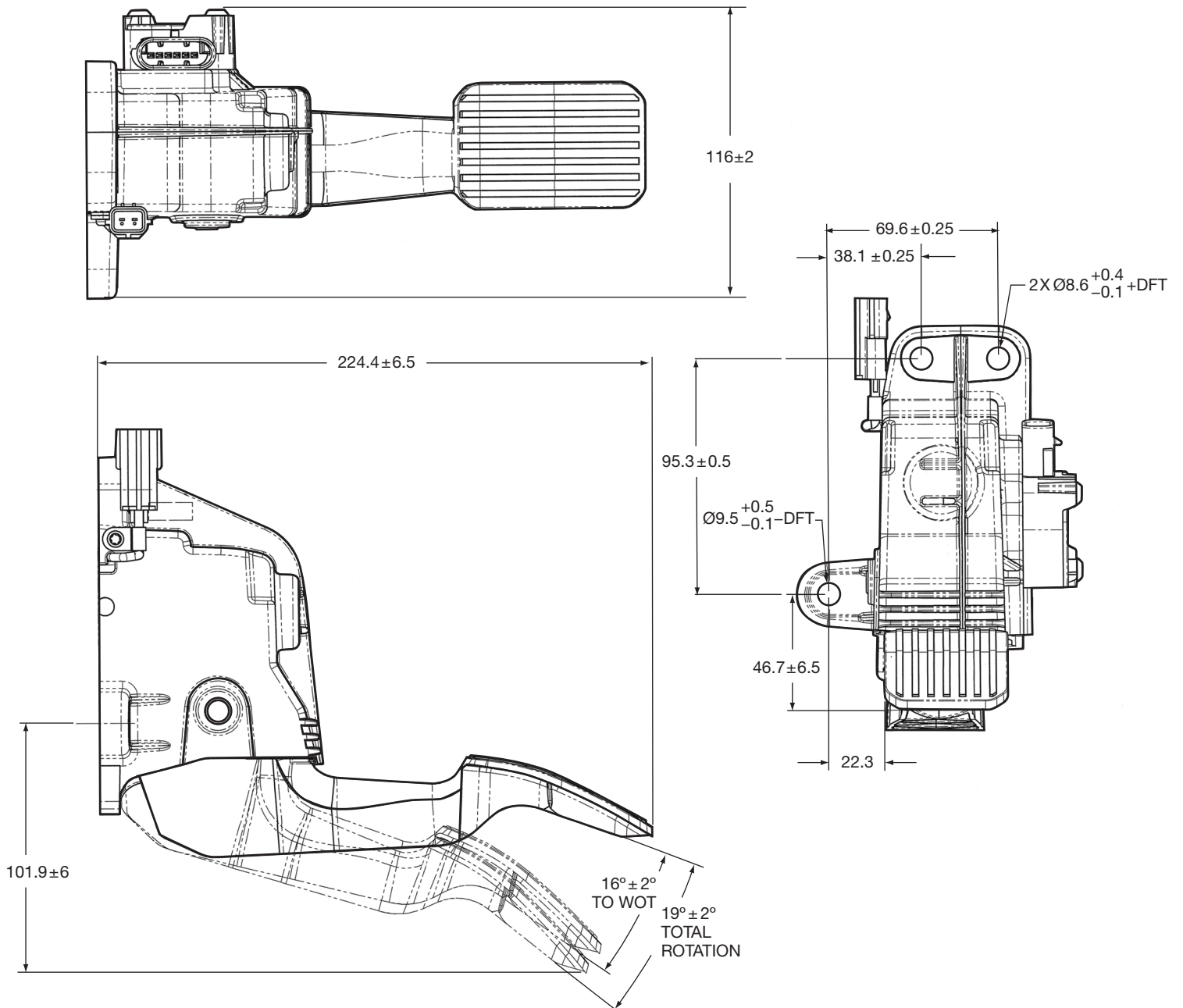
MODEL FP

MODEL ENCODEMENT

FP	X	Y	Z	001
Foot Pedal	Mounting	Material	Sender	Sequential Code
	F=Floor	C=Composite	V=0-5V	
	L=Low Profile (flush)	M=Metal	R=0-5kΩ	
	S=Suspended			

DIMENSIONS mm

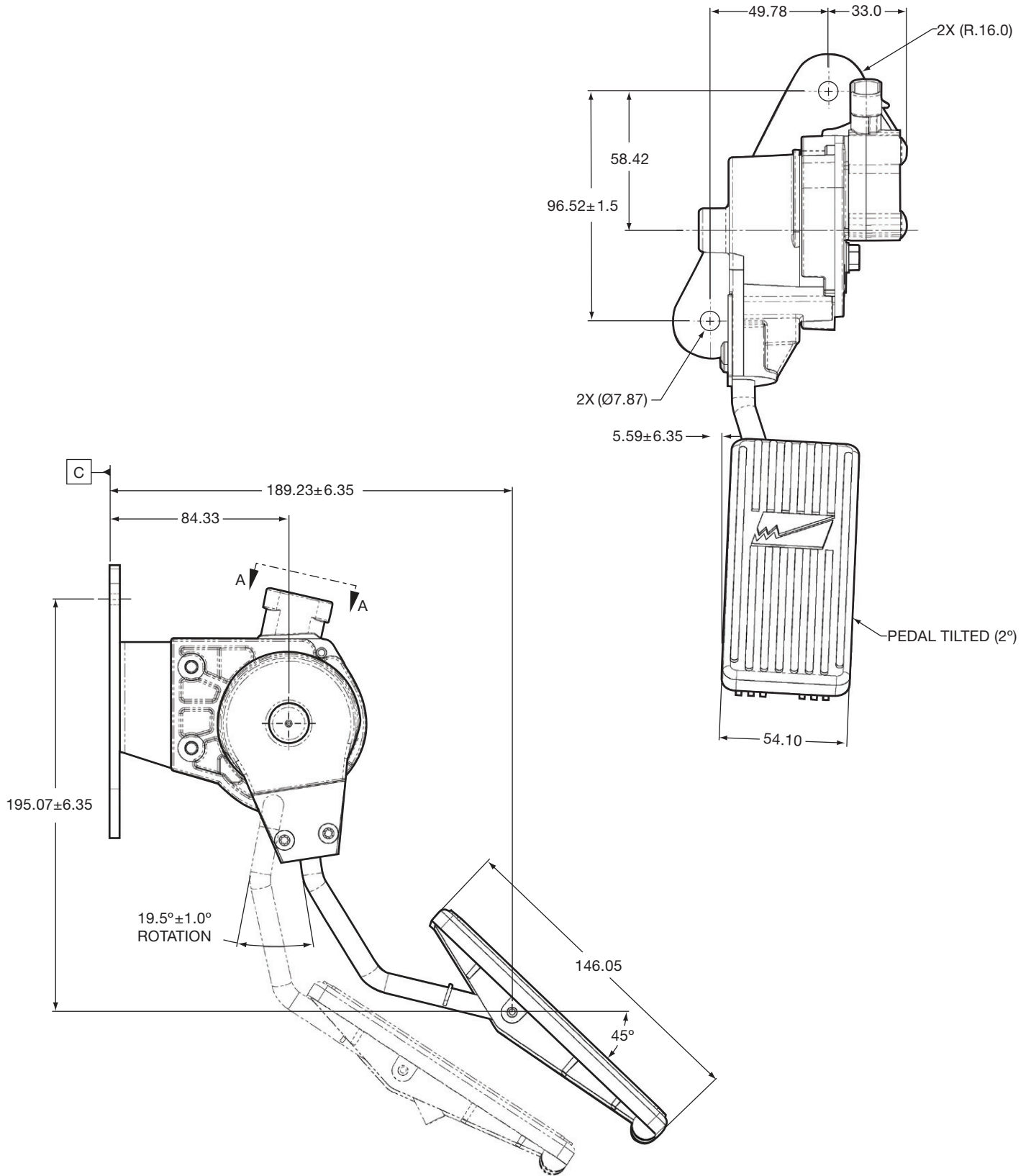
Model FP-SCV



MODEL FP

DIMENSIONS mm

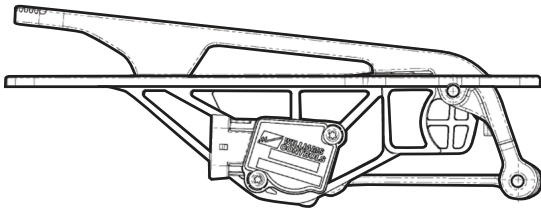
Model FP-SMV



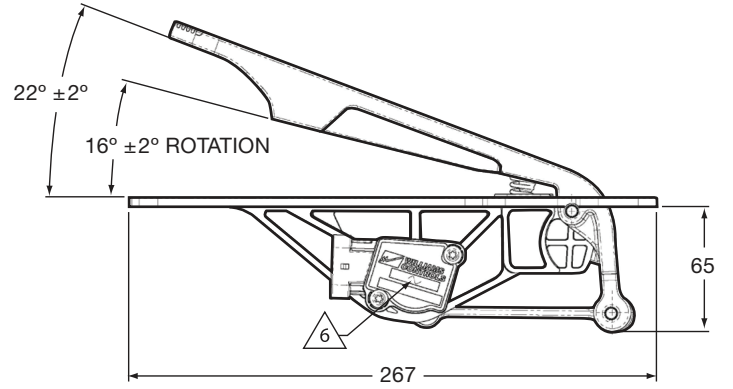
MODEL FP

DIMENSIONS mm

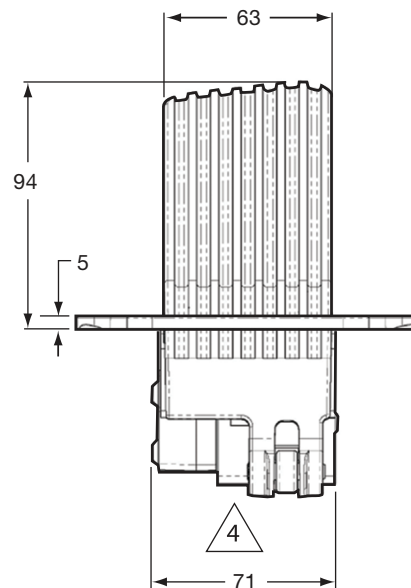
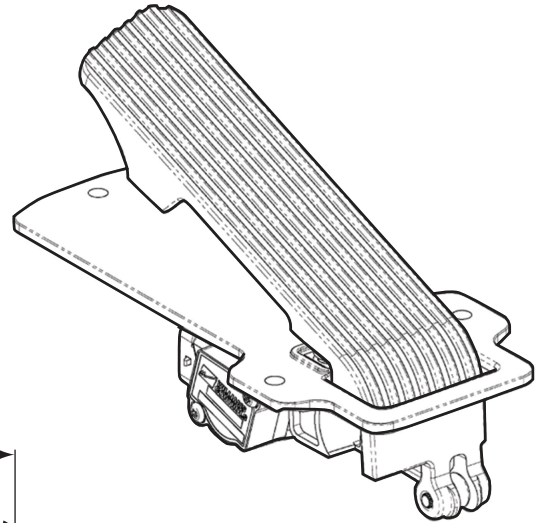
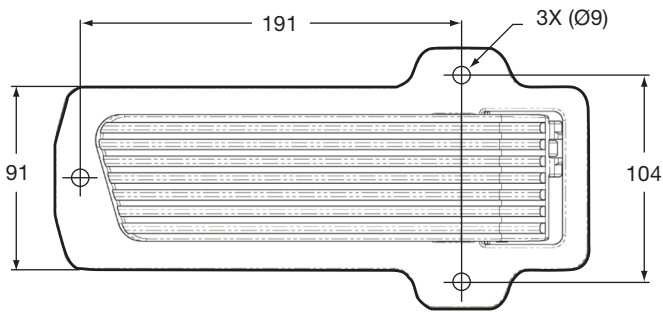
Model FP-LCV



PEDAL ASSY SHOWN AT W.O.T.



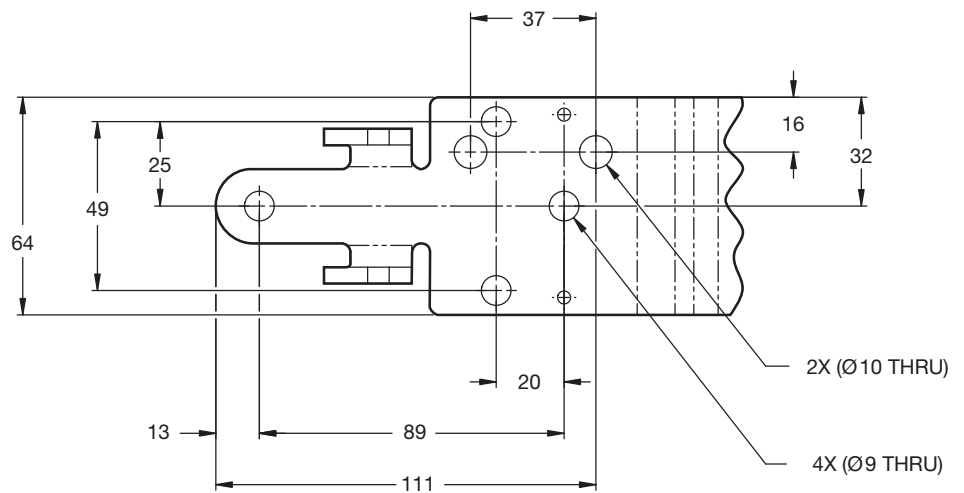
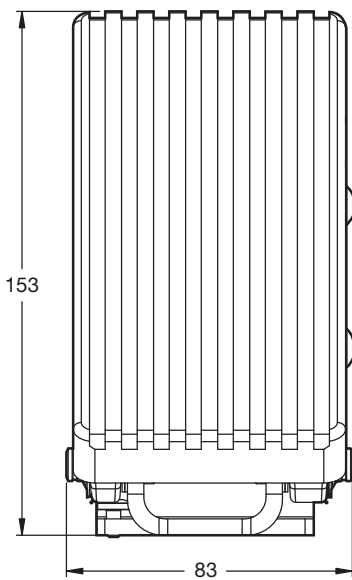
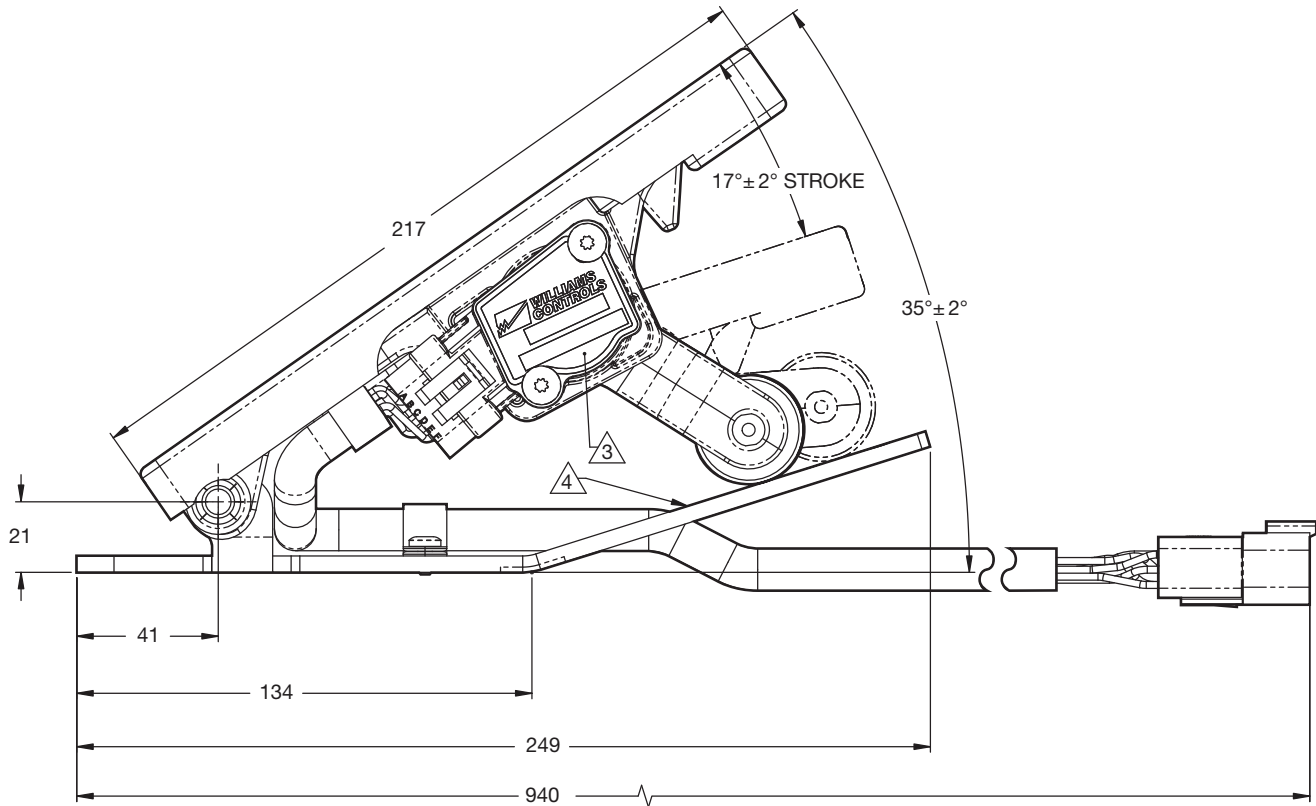
PEDAL ASSY SHOWN AT IDLE



MODEL FP

DIMENSIONS mm

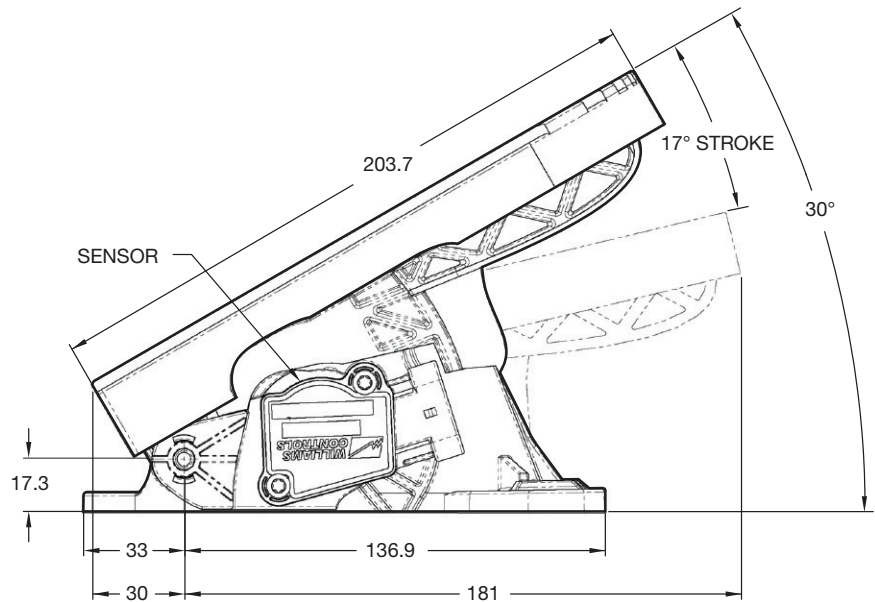
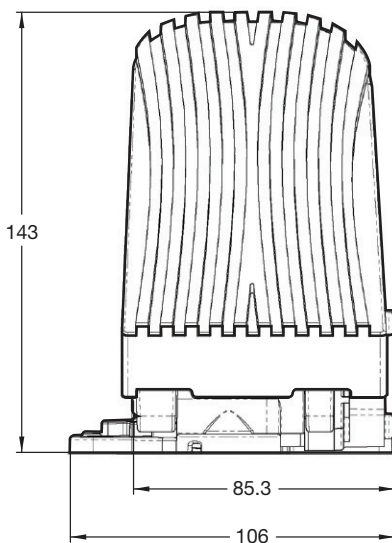
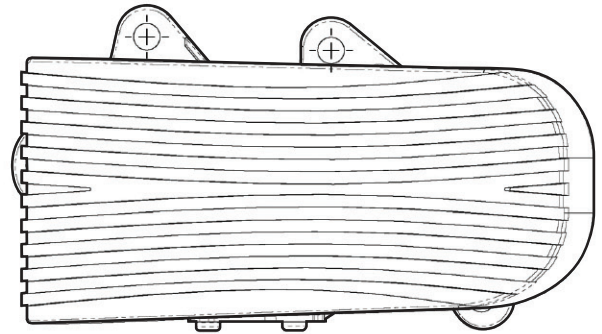
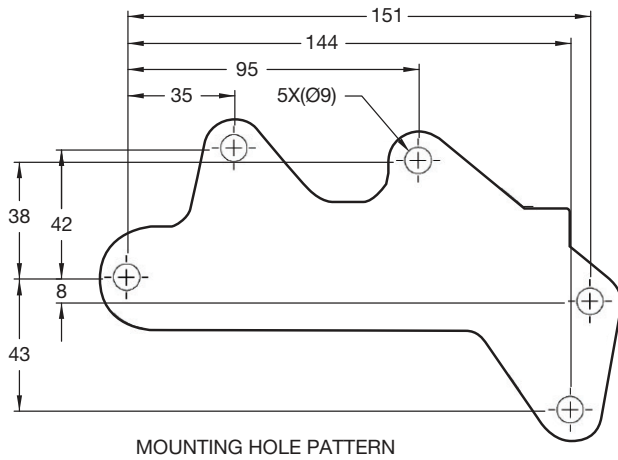
Model FP-FMV



MODEL FP

DIMENSIONS mm

Model FP-FCV



WARRANTY Two year limited warranty from time of delivery.



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Specifications subject to change without notice

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