



walvoil
MOTION BY PEOPLE

NEW

APW-CPW

Electronic pedal



APW-CPW PEDAL

- Hall effect contactless sensor
- Suitable for Safety application
- Rugged construction
- Customizable actuating force
- Customizable mounting flange



Thanks to its strong mechanical structure and advanced electronic design, this new Hall Effect pedal is suitable for harsh environments and safety applications.

The pedal mechanical and electrical life reaches 5 million cycles on each axis.

If the pedal is equipped with lever, the integrated damping system minimizes its oscillation during return in neutral position. With the Deutsch connectors and the electronic board potted with resin, the joystick base is completely sealed (IP67/IPx9K).

The output signal is Analog or CANbus, the protocol can be SAE J1939 and CanOpen.

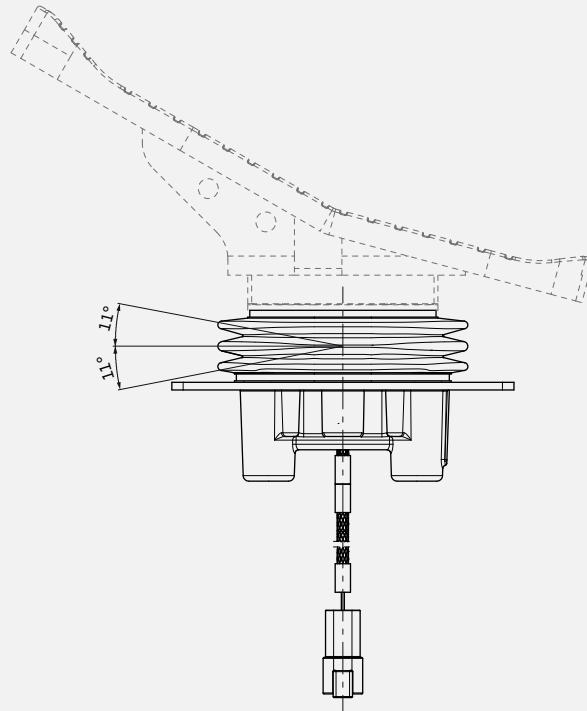
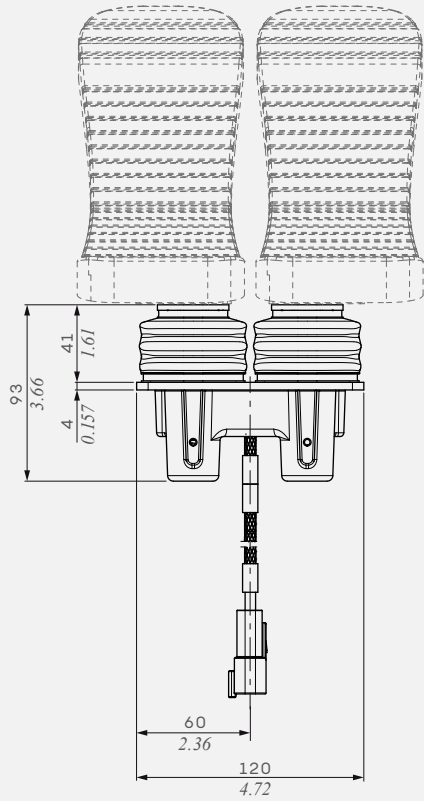
The electronic board of the pedal is designed with Hardware Category 2 and is capable of reach Performance Level D / SIL 2. The electronic pedal has been qualified according to the most rigorous international and customers' standards.

WORKING CONDITIONS



Electrical Specifications	
Supply voltage (VBB)	from 8 to 32 V
Max. supply current	200 mA (no load)
CANbus Output (CPW)	SAEJ1939, CanOpen
Analog Output (APW)	0.5 V - 4.5 V
Mechanical specifications	
Mechanical and Electrical life	5.000.000 cycles
Lever angle	Operation $\pm 11^\circ$ for axis
Environmental specifications	
Temperature operating	from -40°C to 85°C <i>from -40°F to 185°F</i>
Storage temperature	from -40°C to 100°C <i>from -40°F to 212°F</i>
Weather protection	IP 67/IPx9K
EMC	according to ISO 14982 /13766

DIMENSIONAL DATA AND CONTROL OPTIONS



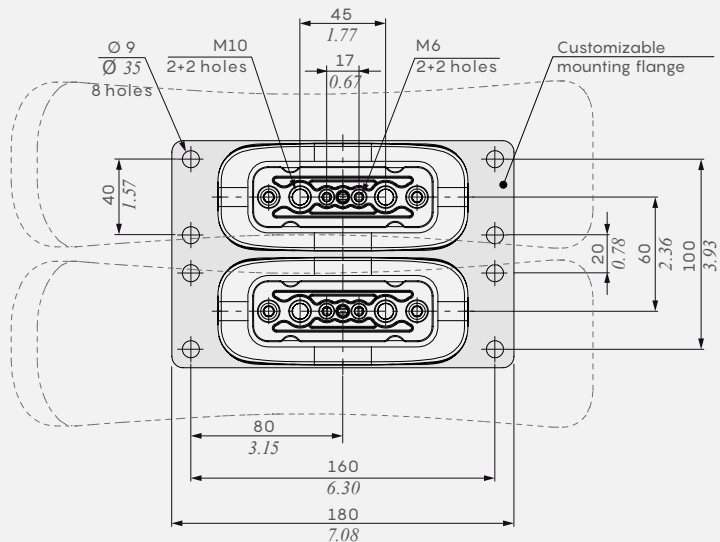
TYPE 01S CONTROL CONFIGURATION

With spring return in neutral position.
Without pedal.

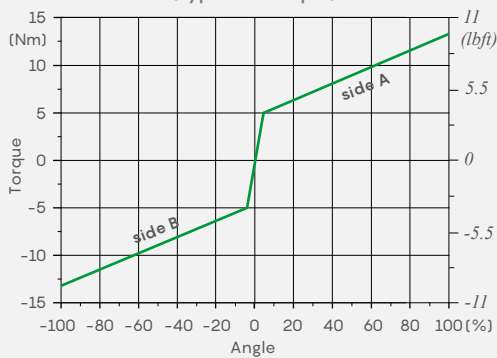
PINOUT CONNECTOR
DEUTSCH DT04-4P



PIN	COLOR	FUNCTION	
		CPW	APW
1	Red	VBB	VBB
2	Yellow	CAN_H	pedal 1
3	Green	CAN_L	pedal 2
4	Black	GND	GND



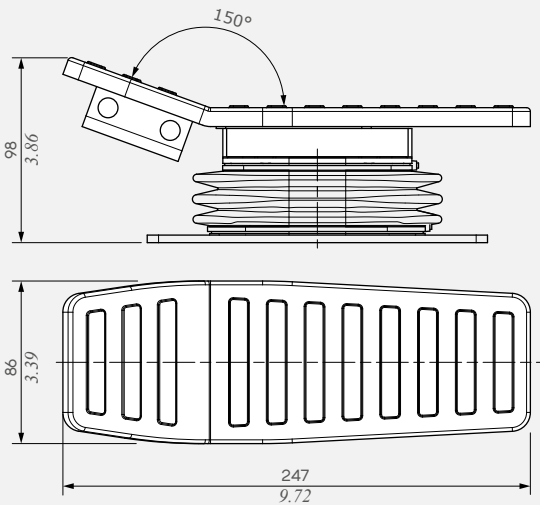
PEDAL AXES ACTUATION FORCES
(typical example)



D I M E N S I O N A L D A T A A N D C O N T R O L O P T I O N S

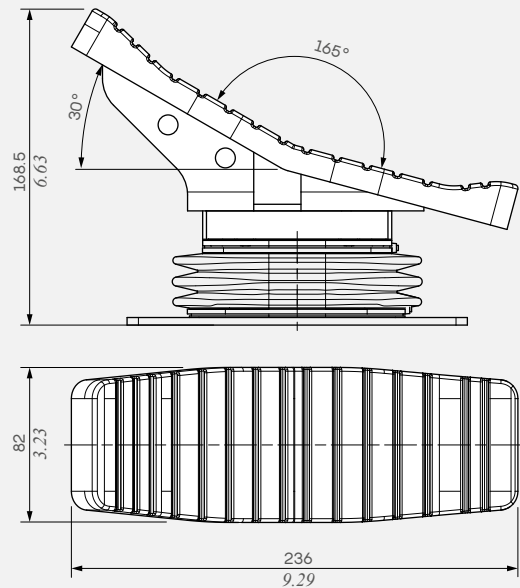
TYPE 0101P CONTROL CONFIGURATION

With spring return in neutral position.
Bent pedal with anti-slip rubber coating.



TYPE 0102P CONTROL CONFIGURATION

With spring return in neutral position.
Bent and tilted pedal with anti-slip rubber coating, short model.



TYPE 0103P CONTROL CONFIGURATION

With spring return in neutral position.
Bent and tilted pedal with anti-slip rubber coating, long model.

