

# 1270 Electronic throttle pedal

▼ This series of plastic wall mounted pedals is intended for any kind of vehicles

A triple concentric torsion spring is incorporated for idle position return.

Made of polyarylamide (PAA) reinforced with 60% fibreglass, pedal 1270 is very robust and reliable, therefore it can be mounted also on heavy duty construction machines or military vehicles.

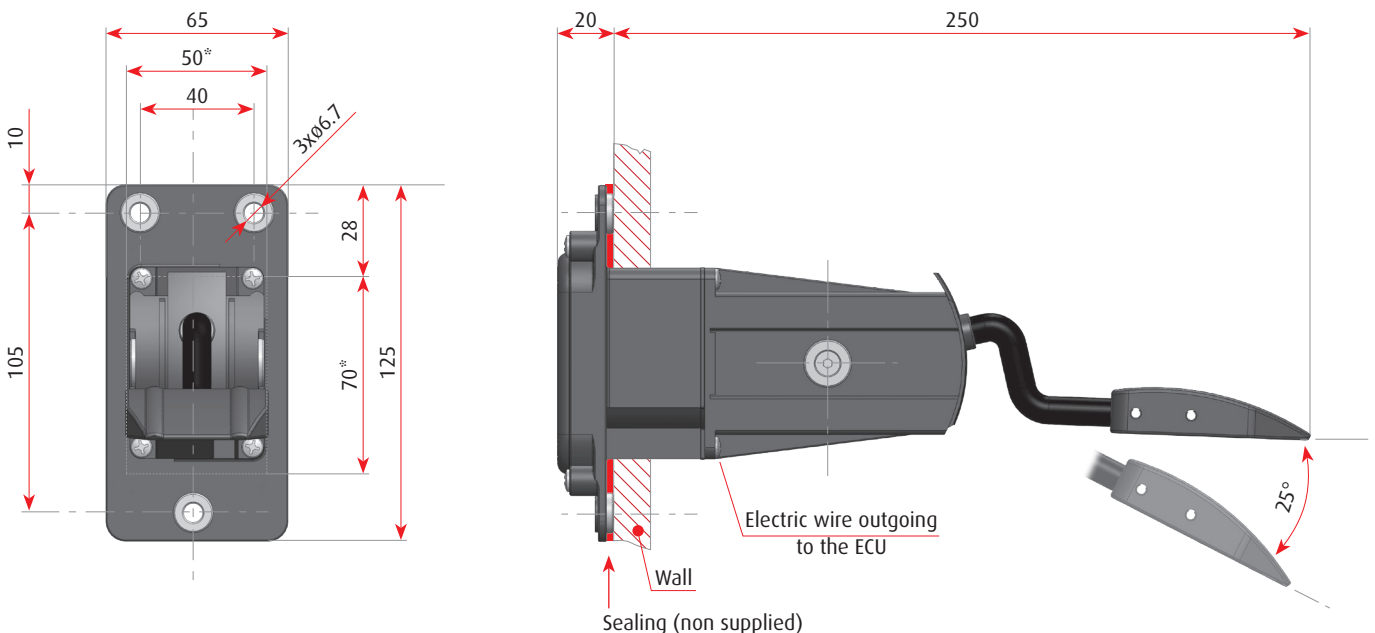
Environmental contamination is minimised thanks to the joint combination of the gasket with the mounting flange which segregate the cabin from the engine area. The full sealing between the cabin and the engine area is widely appreciated in the military sector where the vehicles are specified to travel with the cabin up to one meter below the water level.

Measuring position is through Hall effect sensor with one or two channels. It is available with any kind of electrical interface: 1 or 2 voltage channels, with or without idle validation switch, PWM, current, CANBus.

Upon request, pedal 1270 can be equipped with the kick-down option and can be configured with the desired electrical cable length, number of poles, type of connector.



## PHYSICAL DIMENSIONS AND MOUNTING INSTRUCTIONS



(\*) Window on the wall to insert the throttle pedal before the fixing



#### MECHANICAL SPECIFICATION

• Operational life (at 25 °C)	2 million cycles
• Operating temperature	-40 .. +80 °C
• Storing temperature	-40 .. +110 °C
• Weight	0.70 kg
• Return spring	Triple safety spring
• Hysteresis	0.15% on read value
• Travel angle	25 degrees

#### ELECTRICAL SPECIFICATION (VERSION WITH VOLTAGE SIGNALS)

• Sensor	Hall effect
• Power supply	5 Vdc ±10% ratio metric
• Electrical signal	Galvanically insulated
• Resolution and update rate	10 bit, update rate 0.1 ms
• Correlation in case of 2 signals	better than 1% in the whole pedal range
• Current consumption	<10 mA (per each channel)
• Minimum load resistance	4.7 kΩ
• Maximum load capacitance	10 nF

#### APPLICATION EXAMPLE: PEDAL 1270 WITH 2 VOLTAGE CHANNELS

Below are reported the typical standard configurations of throttle pedals with 1 channel, 2 channels voltage output and 1 channel voltage + 1 Idle Validation Switch. Electrical cable standard length is 0.5 meter but any other length can be defined when ordering. Factory standard connector is AMP Metripack 6 poles but any other connector can be defined when ordering.

#### INTERFACE CONFIGURATION

- 1 channel
- 2 channels
- 1 channel + 1 idle validation switch

#### CODE

1270.01.00  
1270.02.00  
1270.03.00

#### SIGNAL OUTPUT

CH1 = voltage signal  
CH1 = voltage signal; CH2 = voltage signal  
CH1 = voltage signal; CH2 = IVS

For a complete overview of Pedal 1270 configured with different possible interfaces, please refer to ECU interfaces section.

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