



HYDRAULIC SOLUTIONS PROVIDER

# ACCELERATOR PEDAL 5V

## CANOPEN FOOT PEDAL WITH HALL EFFECT SENSOR



## General description

Electronic foot pedal with Hall-effect sensor is used for regulating the vehicle speed in mobile applications. The pedal can also be used as a brake pedal or as an inch-pedal.

The sensor output is a voltage signal 0.65 -4.3 V. Supply voltage +5 VDC.

The pedal includes a safety switch that is used as a control signal to the ECU, indicating that the pedal is mechanically activated. Two strong springs, one inner and one outer spring and low friction bearings ensures safe return of the sensor to idle position under all conditions when the pedal is released.

The sensor mounting location underneath the foot plate minimizes mounting space requirements and reduces vulnerability to dirt, water, and contaminants.

The sensor have a protection class IP65 and is dust and water proof.



## Application areas

- Mobile machinery
- Automotive industry

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## Technical Data

### Electrical data -Sensor

Input Voltage (pin A) sensor element: 5 VDC +/-2 %  
Operating current: normal 20 mA, max. 25 mA.  
Reverse polarity: Not protected. Withstand max. 3 min.

### Electrical data -Safety switch

Type: Transistor NO  
Max. supply voltage: 24 VDC  
Max. load current: 10 mA @24VDC  
Activation point opened to closed:  
Signal output at activation point: 0.9 V +/-0.05 V.

### Mechanical operating data

Effective pedal angle range: 17.5° , +/-2°  
Max permitted applied pedal force: 1600 N (160 kgf)

## Material

All parts are made of corrosion resistant material.  
Pedal foot plate material: PA66 + GF30%  
Pedal bottom plate material: Aluminum

## Weight

730 g

## Durability

> 10 Milj cycles, idle to full pedal stroke.

## Environmental data

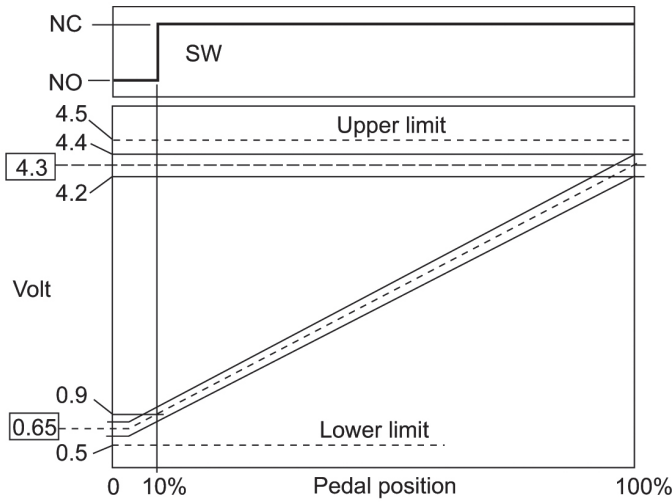
Operating temperature: -40 °C to +85 °C  
Storage temperature: -50 °C to +120 °C  
IP protection class, sensor: IP65 (IEC 60529) dust and waterproof.  
Resistant against saltfog, lubricating oil, diesel fuel and cooler fluid with 50% anti-freeze.

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## Ordering Information

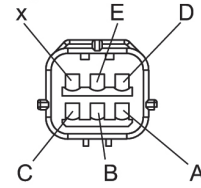
ACC.Pedal 5V Part No. 5010 9010

### Pedal signal output range



### Electric connector

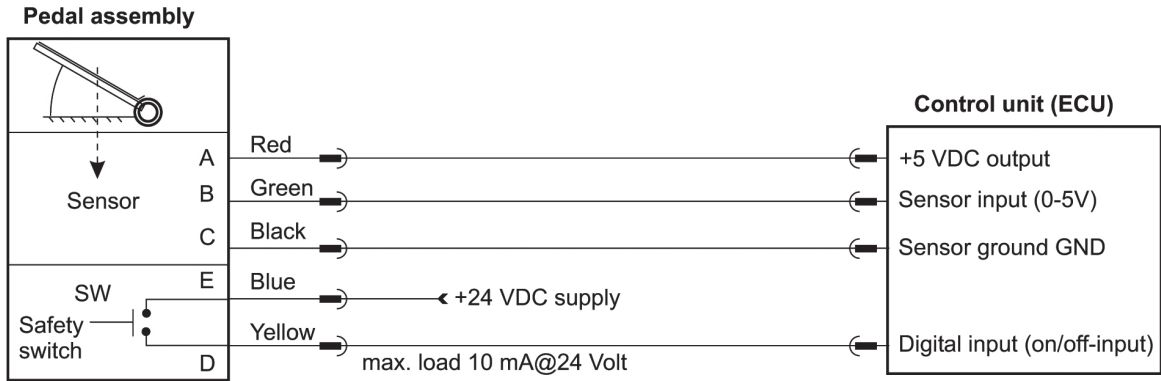
AMP J-series, 6 wire. Part No.:174264-2



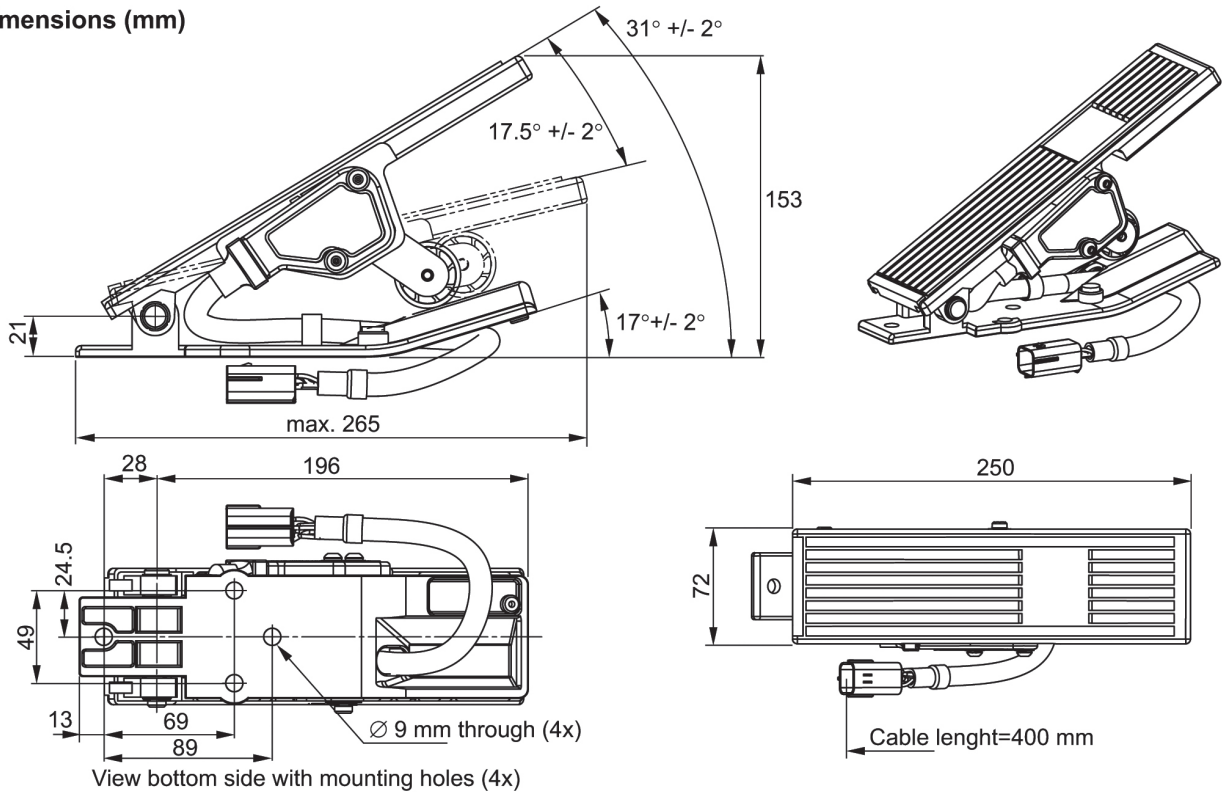
Pin location	Description	Color
A	Power input +5VDC	Red
B	Pedal signal output	Green
C	Sensor ground GND	Black
D	Switch common	Yellow
E	Switch supply	Blue
X	(not used)	-

Mating connector, AMP Part No.: 174262-2

### Electric connection to control unit



### Dimensions (mm)





## CONTACT INFORMATION

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