Hall effect heavy duty floor mounted throttle pedals

Aluminium throttle pedals 962 000 series

- Pedal with swivel arm
- Customized mounting plate
- Pedal with twin sensor

- 30°, 35° or 45°

Polyamide throttle pedals 965 000 series

- Different treadle plates available
- 30°, 35° or 45°

CAN J1939 pedal modules

- 962 000 with CAN module
- 965 000 with CAN module
- Pedal with swivel arm
Inductive automotive floor mounted pedals

969 000 series

Available without or with kick down

Hall effect heavy duty suspended throttle pedals

Polyamide throttle pedals 963 000 series

right sensor  twin sensor  left sensor

CAN J1939 pedal modules

963 000 with CAN module

Pedal with swivel arm
Programmable electronic implement and hydrostatic drive controls

Narrow or Wide Dual Acting Pedal - Single sensor

CAN J1939 pedal modules

Wide Dual Acting Pedal - Twin sensors
Programmable Analogue Signal + Idle Validation Switch (IVS)

Switch High to Low

Switch Low to High

Idle-Low and Idle-High

Programmable 200-500 Hz PWM Signal + Idle Validation Switch (IVS)

Switch High to Low

Switch Low to High

Programmable Single/Dual Analogue Signals or 200-500Hz Single/Dual PWM Signals

2 Increasing Signals

2 Crossed Signals

2 Decreasing Signals
Programmable Analogue Signal + 200-500 Hz PWM Signal

Increasing Analogue & PWM Signals

Duty Cycle [%]

Output Signal [V]

%1

%2

V1

V2

X1

X2

Travel [°]

Crossed Analogue & PWM Signals

Duty Cycle [%]

Output Signal [V]

%1

%2

V1

V2

X1

X2

Travel [°]

Decreasing Analogue & PWM Signals

Duty Cycle [%]

Output Signal [V]

%1

%2

V1

V2

X1

X2

Travel [°]

4-20 mA Current Output Signals

Single 4-20mA Signal

Output Signal [mA]

I1

I2

X1

X2

Travel [°]

Single 4-20mA + Single Analogue

Output Signal [mA]

Output Signal [V]

I1

I2

V1

V2

X1

X2

Travel [°]

CAN J1939 data

Engine ECU

CAN bus

Throttle pedal 1

Remote throttle

Throttle pedal 2

Pedal travel angle [°]

APP1 (low value)

IVS

K0

1

0

K0

0

Kick down feel 20°

Full 22°

Pedal travel angle [°]

21°

+/- 0.5°

250

(100%)

7%

+/- 3%

Idle 0°

+/- 0.5°

0 (0%)

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Hall effect heavy duty hand throttles

972 000 series - Top mounted -

973 000 series - Rotary -

975 000 series - Side mounted -

with twin sensor

with customized handle

with bended lever

with straight lever
Hall effect direct drive hand throttles

976 000 series

Bended lever

Horizontal lever

Different knobs available

Hall effect heavy duty throttle position sensors

974 000 series

CAN J1939 TPS modules

974 000 with CAN module
Automatic engine cut off controller

- Automatic Engine Cut Off Controller
- Saves fuel consumption by automatically cutting off the engine of the vehicle
- Four digital and one analogue programmable inputs
- Two frequency inputs dedicated to engine RPM and transmission (vehicle speed) monitoring
- Safety force guided relay
- Two general purpose outputs

Governor electronic control system

- Engine Actuator Controller
- Dual analogue throttle control input
- Actuator analogue feedback input
- Three temperature monitoring inputs (1xPT100, 2xNTC)
- Two general purpose additional programmable digital inputs
- Engine RPM frequency input available
- Two general purpose additional outputs (2A)
Compatible with engines from:

- Caterpillar
- Cummins
- Dachai
- Daedong
- Daewoo
- Daf
- Detroit Diesel
- Deutz
- Hino
- Isuzu
- Iveco
- JCB
- John Deere
- Kubota
- Liebherr
- Lovol
- MAN
- Mercedes
- MTU
- Navistar
- Nissan
- Perkins
- Renault
- Scania
- Shanghai Diesel
- Sisu Diesel
- Volvo
- Volkswagen
- Weichai
- Yanmar
- Yuchai