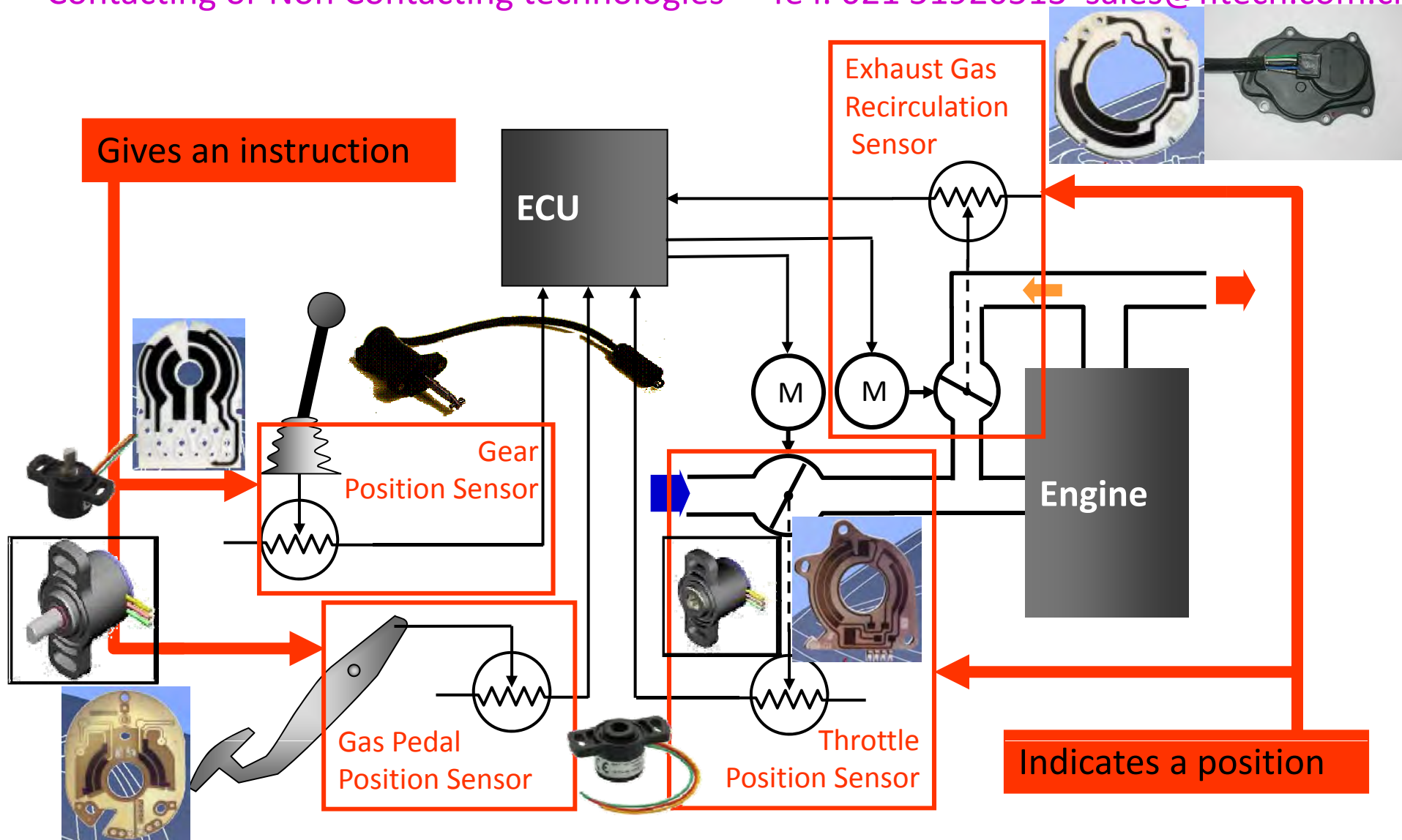
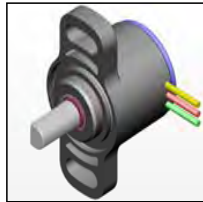


AUTOMOTIVE SENSOR 汽车传感器 上海丰林科技有限公司

Contacting or Non Contacting technologies Tel: 021 51920513 sales@fltech.com.cn



AUTOMOTIVE



PEDAL POSITION
SENSOR

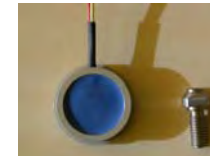
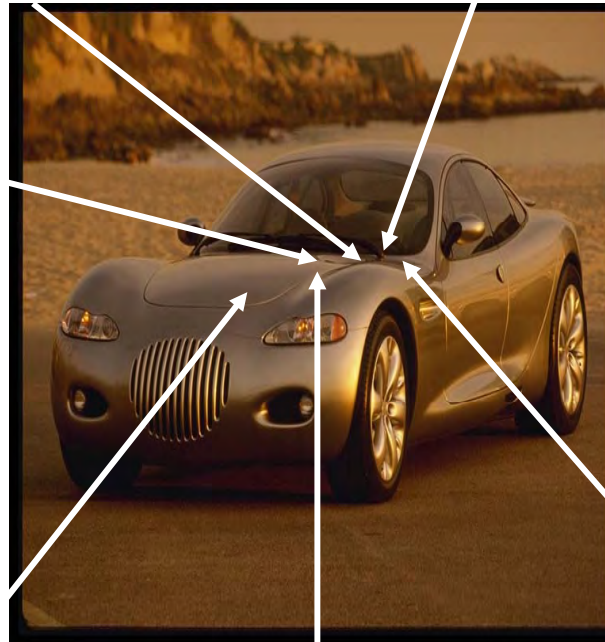
ENGINE CONTROL UNIT (ECU)



Our EGR sensor

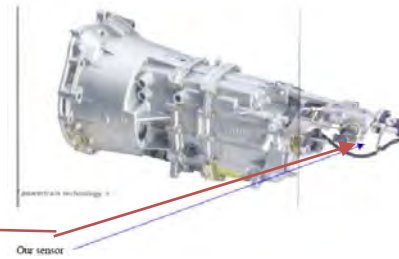
Our throttle body sensor

ENGINE MANAGEMENT
Throttle position sensor



EGR VALVE SENSORS

TRANSMISSION SENSORS
Gear Application – Clutch position
sensor



Our sensor

MOTION TRANSDUCERS from VISHAY SFERNICE give you **superior design and significant cost savings**

position sensors for:

Engine Control

The Throttle Position Sensor (TPS) provides throttle angle feedback to the electronic command unit—necessary for power, cruise and traction control. The TPS can be supplied as a kit incorporated into the throttle body by the customer, or as a complete sensor assembly with optional additional functions.

Pedal Position

The Gas Pedal Sensor (GPS) transmits the throttle pedal angle to the electronic command unit—necessary for power, cruise and traction control. With the TPS, the GPS helps the ECU achieve improved fuel economy, and simplifies the power management of the engine. The GPS can be supplied as a kit integrated by the customer into the pedal assembly, or as a complete sensor with optional additional functions.

Exhaust Gas Recirculation (EGR)

The EGR sensor controls EGR valve position. The sensor helps ensure that vehicles are in accordance with worldwide emission requirements. As EGR sensors can be either rectilinear or rotational, the EGR can be supplied as a kit integrated by the customer into the EGR valve body, or as a complete sensor with optional additional functions.

Gear Position

The Gear Position Sensor, in conjunction with the electronic command unit, allows automatic operation of the clutch mechanism.

OUR TECHNOLOGIES...

TRACK SYSTEMS

The resistive track is based on screen printed carbon polymer thick film technology. The thick film track can be printed on substrates suitable for the application:

- Epoxy glass fibre substrate such as FR4 or equivalent. This technology allows for the integration of an electronic circuit on the reverse side of the substrate directly linked to the potentiometer, resulting in significant cost and space savings and improved EMC capabilities.
- High temperature thermosetting plastic with comolded connectors.
- Ceramic substrate.
- Poly-imide foil.

WIPER SYSTEMS

Available two ways:

- 3 finger wipers for standard life requirements
- Multi wire wipers (brush of 10 or 12 wires in precious metal alloy) for long life and high reliability

GENERAL CHARACTERISTICS Vishay manufactures and tests all its products in accordance with general requirements of automotive applications.

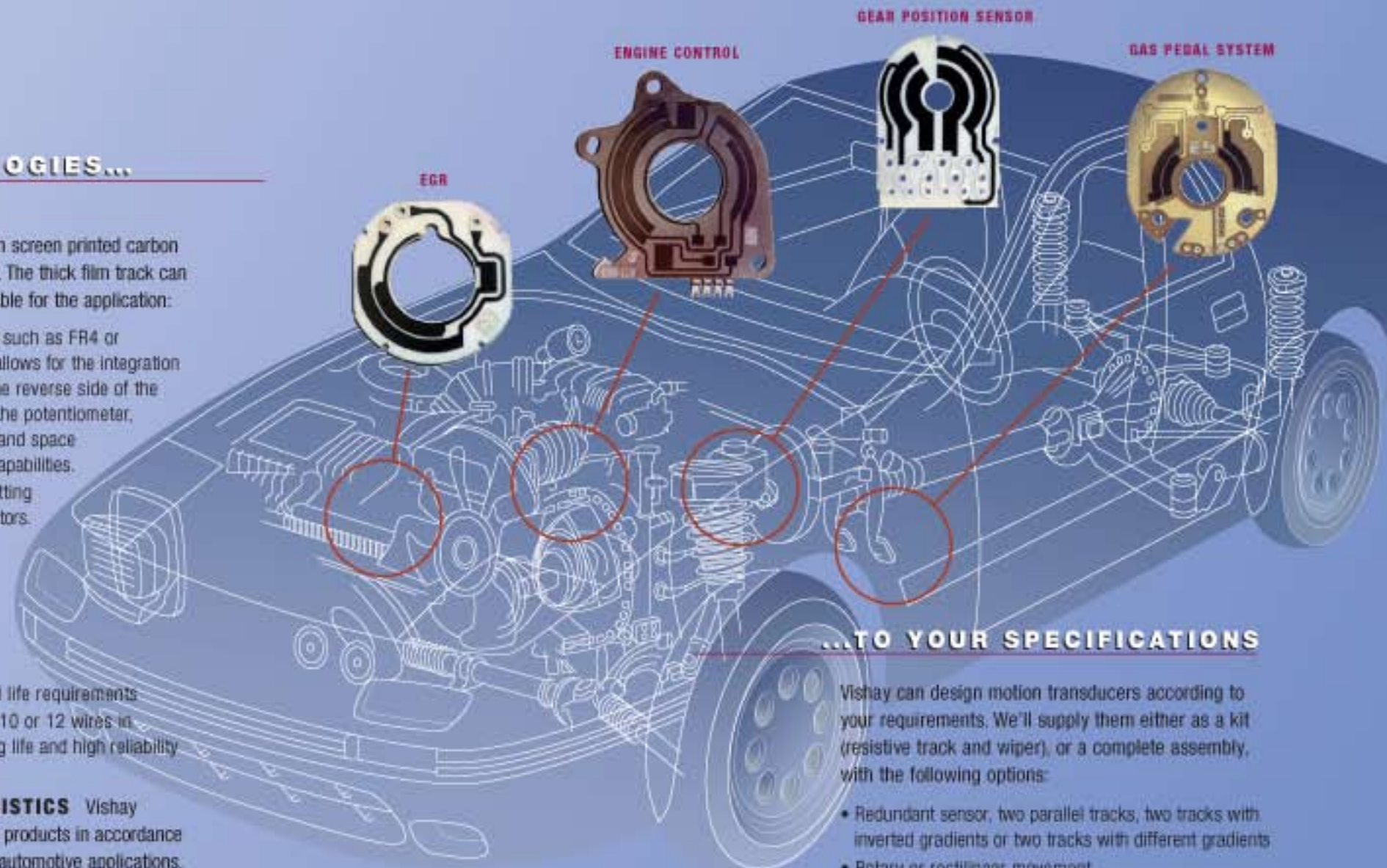
- Standard ohmic value: 1k to 5k
- Absolute linearity: 1% to 3% of V_s
- Improved accuracy on request
- Standard operational life: 20 million cycles full stroke
- Standard electrical travel: 15° to 120°
- Supply voltage : 5VDC to 24VDC
- Temperature range : -45°C to 150°C

GEAR POSITION SENSOR

ENGINE CONTROL

GAS PEDAL SYSTEM

EGR



...TO YOUR SPECIFICATIONS

Vishay can design motion transducers according to your requirements. We'll supply them either as a kit (resistive track and wiper), or a complete assembly, with the following options:

- Redundant sensor, two parallel tracks, two tracks with inverted gradients or two tracks with different gradients
- Rotary or rectilinear movement
- Non-linear output laws
- Spring loaded shaft return
- Electronic circuit mounted near the potentiometer
- Integrated automotive connector with additional electrical output (DC or torque motor supply)
- Dual functions like idle and throttle control
- Integrated discrete switch

