FAE

WE DEVELOP CUSTOMIZED
ELECTRONIC SENSOR SOLUTIONS

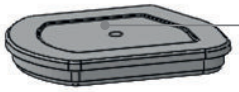
GPS - GEAR POSITION SENSOR



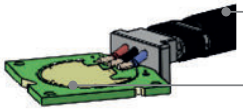
+20
PART NUMBERS

The GPS Sensor, or Gear Position Sensor, is a component designed to precisely determine gear position in motorcycles. It features a second-and-a-half generation TRIAXIS sensor that allows up to 16-point calibration, providing high magnetic immunity and excellent adaptability to the specific geometric requirements of each customer. The sensor is designed to ensure reliable operation under demanding conditions, manufactured in an ESD-protected room, and offering high resistance to vibration, temperature variations, dirt, and moisture. Its reliability has been validated in real-world applications such as the FTR1200, FTR1200S, and Triumph Moto2 motorcycles.

The sensor is mounted on the side of the motorcycle's gearbox, coupled to the mechanism actuated by the rider through the gear shift lever. During gear changes, the lever movement rotates the drive pinion, which in turn causes the GPS roller to rotate. This rotation, combined with the position of the magnet relative to the Hall sensor, generates an output voltage signal proportional to the selected gear. This signal, displayed via an LCD screen, allows the rider to view the current gear in real time, enhancing control, riding experience, and safety.

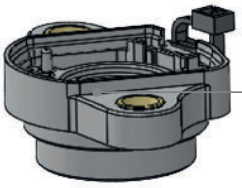


Cover
Protective sensor casing that shields the internal circuit from moisture, dirt, and mechanical damage.

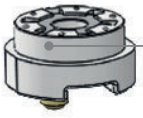


Cable
Fluoropolymer cable coating with high performance for extreme temperatures.

Electronic circuit
No interference with ECU. Customisable.

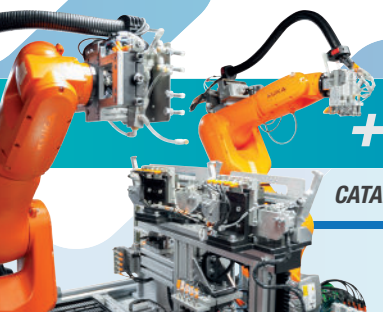


Body
In-house design and manufacturing.
OEM quality.



Ceramic plate
High-strength substrate that dissipates heat.

Die protector
Prevents damage from shocks or vibration.



+11 CATALOGUES | **+75** YEARS | **+180M²** ESD ROOM | **+1000M²** CLEAN ROOM | **+5.000** PART NUMBERS | **+12.000M²** BARCELONA

TecDoc Catalogue https://web.tecalliance.net/fae +34 932 618 500 fae@fae.es www.fae.es