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Press Contact

Petra Streifler
Manager PR & Advertising
phone: +49 6103 709 1699
fax : +49 6103 709 1619
e-mail: pstreifler@tycoelectronics.com

Tyco Electronics AMP GmbH
AMPèrestr. 7-11
63225 Langen
Germany

Tyco Electronics Delivers Displacement Sensors for Dual Clutch Transmissions

Dual clutch transmissions will increase their market share in the next years. These types of transmissions offer the same ease to the end user as do automatic transmissions. Dual clutch transmissions require reduced mechanical effort and give additional advantages in fuel consumption.

In order to realise these advantages, dual clutch transmissions require an electronic control unit with high performance sensors. Tyco Electronics therefore utilises PLCD sensors (Permanentmagnetic Linear Contactless Displacement) for measuring the clutch position on the actuators. These magneto-inductive sensors are very compact and work absolutely wear-free. The technology by Tyco Electronics fulfils the demanding requirements of this application:

- Very high measurement performance
- High resistance against vibration
- Suitable for temperatures up to 150°C
- Oil resistant over lifetime

In this specific application there is the need to measure the position of two actuators which are located directly side by side. This condition must not create any interactions within the measurement technique. This is achieved by specifically controlling the sensor elements which are integrated within a common housing. The output signals are digital PWM signals. With these output signals the control unit can manage the gear shifts in an efficient and smooth manner.



Information about Tyco Electronics – Automotive Sensors:

As a specialist for non-contact sensors (Position, Travel, Angle, Speed, Temperature) Tyco Electronics offers innovative technologies and product solutions for automotive applications, as for example:

- Transmission (Neutral-, Drive Mode-, Gear/Shift position, Speed Sensors)
- Clutch (Position Sensors for Master-, Slave- and Concentric Slave Cylinder, Clutch Pedal)
- Seat (Seat Track Position, Seat-belt buckle)
- Steering (Torque, Steering- and Motor Angle Sensor, Rear Axle Steering Cylinder)
- Brake (Brake Light Switch, Wheel Speed Sensor, Brake Simulation Module or Brake Master Cylinder)
- Chassis (Chassis Level, Convertible Roofs, E-gas Modules)
- Engine and Exhaust Management (Throttle, Air Control, Turbocharger, EGR, Cam- and Crankshaft)
- Convenience Applications (Door Lock Units, Convertible Sun Roof)
- Fuel Level Management (Fuel Level Sensor, Filter Water Detection, Fuel Pump Control)

About Tyco Electronics

Tyco Electronics Ltd. is a leading global provider of engineered electronic components, network solutions, undersea telecommunication systems and wireless systems, with 2007 sales of US\$13.0 billion to customers in more than 150 countries. We design, manufacture and market products for customers in industries from automotive, appliance and aerospace, defense and marine to telecommunications, computers and consumer electronics. With over 7,000 engineers and worldwide manufacturing, sales and customer service capabilities, Tyco Electronics' commitment is our customers' advantage. More information on Tyco Electronics can be found at www.tycoelectronics.com.

For technical information, please contact:

Tyco Electronics AMP GmbH
Stefan Gebauer
Phone : +49 6251-133 1407
e-mail : s.gebauer@tycoelectronics.com

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