



TRANSMISSION SPEED SENSOR

for the Automotive, Industrial and Commercial Transport Industry

TE Connectivity's (TE) platform speed sensors are contactless sensors measuring the gear speed of a transmission gear wheel. The technology is based on a Hall/ GMR with integrated magnet to detect speed and direction of a ferromagnetic gear wheel. To fulfill current market requirements on functional safety the sensors are qualified up to ASIL B with the newest IC generations. These platform sensors are designed for harsh automotive/ ICT environments, such as powertrain applications with high temperature, vibration, shock and sealing requirements.

PRODUCT HIGHLIGHTS

- Triggered by ferromagnetic gear wheel
- Current interface with direction detection
- Robust in harsh environments

PRODUCT SPECIFICATIONS

Solution Name	Transmission Speed Sensor
Application Focus	Transmission
Sensor Type	Speed

Transmission Speed Sensor

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FEATURES & BENEFITS

- Contactless speed sensor
- Robust in harsh environments: vibration, shock, operating temperature up to +140°C
- Different shapes available
- Up to ASIL B
- Diagnostics ability due to two-wire interface

MAIN SPECIFICATIONS

Variants	Hall Technology			GMR Speed Sensor
	29 mm (90° Connector)	37 mm (180° Connector)	46 mm	
Output	Current Interface with Direction Detection			
Supply Voltage	max. 18V		max. 24V	
Operating Temperature	-40°C to +140°C			
Sealing	IP6k9k (Sealed Connector Interface)		IP6k9k (Sealed Connector Interface)	
	Transmission Oil Resistance			
FUSA	Up to ASIL B			

CONTACT INFORMATION

NORTH AMERICA Tel +1 800 522-6752	EUROPE Tel +31 73-624-6999	ASIA Australia: Tel +61 2-9840-8200 Hong Kong: Tel +852 2738-8731 Shanghai: Tel +86 21-3398-0000 Korea: Tel +82 2-3415-4500
SOUTH AMERICA Tel +54 11-4733-2015	AFRICA Tel +27 41-503-4500	Click here if you want to TALK TO A SPECIALIST 

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