



T40 PLATFORM POSITION SENSOR

for the Automotive, Industrial and Commercial Transport Industry

PRODUCT HIGHLIGHTS

- Non-contact sensing for linear movements (angular sensing available)
- Robust in harsh environments
- Flexibility in functionality and communication protocol via programming

TE Connectivity's (TE) T40 platform automotive position sensor is a non-contact position sensor measuring travel position (or angle position) in transmission, chassis, engine, steering, clutch, and brake applications. It can be configured with analog or PWM output.

The core of this sensor consists of a dual-die 3D-Hall technology IC. A permanent magnet attached to the moving component will generate a stable magnetic field. The sensor detects the travel or angle of the target magnet by sensing the magnetic flux density (magnitude) in multiple axes, which are then transformed to output position signal(s). The dual complementary outputs are independent, originating from separate and isolated silicon dies, called dual die.

This platform sensor is designed for harsh automotive environments, such as powertrain applications with high temperature, vibration, shock and sealing requirements.

PRODUCT SPECIFICATIONS

Solution Name	Platform Position Sensor
Application Focus	Transmission, Drivetrain, Pedal Position Sensing
Sensor Type	Linear/Angular Position Sensor

PART NUMBER

2343826-2

T40 Platform Position Sensor

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FEATURES & BENEFITS

- Non-contact sensing for linear movements (angular sensing available)
- Robust in harsh environments: vibration, shock, operating temperature up to +150°C
- PWM interface (analog or SENT also possible)
- Small geometry
- Fully redundant sensor


MAIN SPECIFICATIONS

	Standard Configuration	Programmable (same Hardware)	New Hardware and Programming	Notes
Output Type	PWM (500 Hz)	PWM Frequency: 250, 500, 1K, 2K	Single output, analog output, SENT output	-
Linear Range	±12 mm	Up to ±50 mm (arc length sensing for rotary applications)	Up to ±50 mm (arc length sensing for rotary applications)	Travel range depends on airgap and magnet selection
Rotary Range	-	-	Up to 360° (on-axis), 120° arc-segment (off-axis)	-
Supply Voltage	5V ± 0.25V	-	Battery voltage 12V, 16V max, sleep mode	-
Transfer Function	10 & 90% DC Guard bands, 3.33% DC/mm (80/24)	Flexible	Any	-
Magnet	TE P/N 2290217 (8 x 18 x 10 mm)	Flexible	Any	Magnet selection depends on travel range and airgap
Airgap	5.20 ±0.25 mm	Up to 8 mm in general	Up to 8 mm in general	Airgap depends on travel range and magnet selection

DIMENSIONS

Width 32.90 mm	Length 41.13 mm	Height 14.60 mm
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