



## PLCD25 PLATFORM POSITION SENSOR

for the Automotive, Industrial and Commercial Transport Industry

### PRODUCT HIGHLIGHTS

- Highly accurate, non-contact sensing for linear movement
- Robust in very harsh environments
- Plug and play deployment readiness

TE Connectivity's (TE) PLCD25 platform position sensor is a highly accurate, non-contact position sensor measuring travel position in gearboxes, clutches, drivetrain and EGR valve applications. It can be configured with analog or PWM output.

The core of this sensor consists of a unique variable transformer measuring system developed by TE. A permanent magnet attached to the moving component generates a saturation zone in the high permeable core inside the transformer. The sensor detects the travel of the target magnet by sensing the position of the saturation zone which is then transformed to output position signals. The output is given as an original and complementary signal allowing the ECU to check the validity of the received signal.

This platform sensor is designed for very harsh automotive and industrial transport environments such as powertrain applications with high temperature, high vibration, shock and sealing requirements. The sensor comes pre-programmed and ready to work with the platform magnet requiring only an offset calibration.

### PRODUCT SPECIFICATIONS

<b>Solution Name</b>	Platform Position Sensor
<b>Application Focus</b>	Gearbox, Clutch, Drivetrain, EGR Valve Position Sensing
<b>Sensor Type</b>	Linear Position Sensor

### PART NUMBERS

x-2177733-y

## PLCD25 Platform Position Sensor

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### FEATURES & BENEFITS

- Highly accurate, non-contact sensing for linear movements
- Robust in very harsh environments: Vibration, shock, operating temperature up to +150°C
- PWM and analog interface (SENT in next generation also possible)
- Plug and play readiness
- +20 years proven deployment


### MAIN SPECIFICATIONS

	Standard Configuration	Programmable (same Hardware)	New Hardware and Programming	Notes
Output Type	PWM (1000 Hz): X-2177733-3 or analog X-2177733-2	PWM (1000 Hz) or analog	PWM (1000 Hz) or analog	-
Linear Range	0 ... 25mm	0 ... 25mm	0 ... 25mm	-
Rotary Range	-	-	-	-
Supply Voltage	5V ± 0.5V	5V ± 0.5V	5V ± 0.5V	-
Transfer Function	0 ... 25 mm <sup>2</sup> 10 ... 90% Ua / PWM 90 ... 10% Uak / PWMk	Any	Any	-
Magnet	TE P/N Magnet: 2141965-1	Flexible	Flexible	Magnet selection depends on travel range and airgap
Airgap	6 ±0.2 mm	Up to 8 mm in general	Up to 8 mm in general	Airgap depends on travel range and magnet selection

### DIMENSIONS

Width 18 mm	Length 58.4 mm (± 0.4 mm)	Height 40.4 mm
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### CONTACT INFORMATION

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