

SENSOR FLAT CONNECTORS

Creating dependable engine sensor connectivity

Aimed at providing high reliability and performance in harsh conditions, TE Connectivity (TE) introduces Sensor Flat 2-, 3- and 4- position connectors with proprietary connector position assurance (CPA) technology to help vehicles to operate dependably, increase efficiency, minimize downtime and maximize engine durability.

The Sensor Flat 2-, 3- and 4- position connectors are ISO 16750-3 Test I, IP67 and IP6K9K sealing rated and are specifically designed to meet high vibration and temperature resistance demands placed on connectors used in modern engines. These compact, all-in-one connectors are a high-value solution for engine sensor connectivity.

The secondary hinge lock, integral connector position assurance (CPA) and radial housing seal help to ensure proper terminal positioning, reliable mating and terminal retention during installation.

Supporting seamless connectivity to most wire-to-device board ends such as sensors, gauges and actuators, TE Sensor Flat 2-, 3- and 4- position connectors can be used in a large variety of engine sensor interfaces for a broad range of engine applications, including passenger, construction, and agricultural vehicles, as well as trucks and buses.

KEY BENEFITS

High Vibration Resistance

- Designs with time-tested high vibration sensor flat resistance contact system

Dependability

- Ensures proper positioning with integrated Connector Position Assurance (CPA)
- Achieves IP67 and IP6K9K sealing levels (with back shell)
- Supports dependable connectivity with a large variety of engine sensor interfaces for almost any application

High Efficiency

- Eliminates the need for additional assembly with secondary hinge locking structure
- Smoother and lower mating force with improved radial seal
- Prevents mis-mating of connectors with two coding options and colors

TYPICAL APPLICATIONS

The Sensor Flat 2-, 3- and 4- position connectors provide a dependable connectivity solution for most sensor interfaces in engine applications.



Truck



Bus



Construction



Agriculture



Automotive



Specialty Vehicles



Lift Truck



Recreational



Marine



Power Sports

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SPECIFICATIONS

Operating Voltage

- <50 V DC

Operating Temperature

- -40°C to +130°C (Sn)
- -40°C to +150°C (Au, Ag)

Degree of Protection

- IP67, IP6K9K

Vibration Strength

- ISO 16750-3 Test I

Insulation Resistance

- >100MΩ at 500 V DC

Voltage Resistance

- 500 V AC


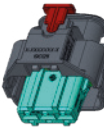




Material (Body/CPA/TPA)

- PA6/PA46/PA6




Dry Heat Test

- 120h at 120°C

SENSOR FLAT CONNECTORS

2 Position		3 Position		4 Position	
	(Code I)		(Code I)		(Code I)
	(Code II)		(Code II)		(Code II)
Code	2 Position Receptacle PN	Code	3 Position Receptacle PN	Code	4 Position Receptacle PN
I	2345388-1	I	2345390-1	I	2345394-1
II	2345388-2	II	2345390-2	II	2345394-2

SINGLE WIRE SEAL

2P		3P		4P	
					
Terminal Plating	Terminal PN	Wire Size (mm ²)	Wire Insulation Diameter (mm)	Single Wire Seal PN	
Tin	967542-1	0.5 - 1.0	Ø1.2 - Ø2.1	828904-1	
Gold	967542-2	0.5 - 1.0	Ø1.2 - Ø2.1	828904-1	
Tin	967543-1	1.5 - 2.5	Ø2.2 - Ø3.0	828905-1	
Gold	967543-2	1.5 - 2.5	Ø2.2 - Ø3.0	828905-1	
Silver	967543-3	1.5 - 2.5	Ø2.2 - Ø3.0	828905-1	

SENSOR FLAT CONNECTORS ACCESSORY: BACK SHELL

2P	3P	4P
		
2050831-2	2050832-2	2050780-2

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