STANDARD® SENSOR PROGRAM

Highlights

1. Standard® offers more than 9,000 different Sensors covering over 80 categories

2. Standard® has more than 2,600 ABS Speed Sensors, representing 700M repair opportunities

3. Many popular Sensor categories are powertrain natural, meaning they fit gas, diesel, hybrid and electric vehicles

What's in your box?

StandardBrand.com

STANDARD® SENSORS

Growing Market

Modern vehicles are equipped with more sensors than ever. Electronic safety systems and a focus on reducing emissions has created entirely new categories of sensors that were unimaginable 20 years ago.

The Automotive Sensors market is expected to grow at 6.6% annually through 2030.

Sources: SMP Internal Data

Reports Insights, Automotive Sensors Market Study, Nov 2022

Standard® has more than 2X the Sensors for a 2018 Toyota RAV4 compared to a 2000 model

2000 RAV4
14 Sensors

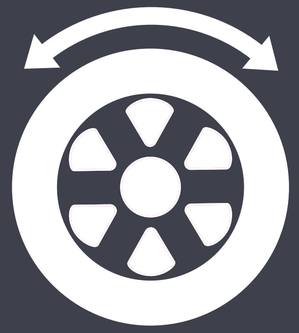
- ABS Speed Sensors X 4
- Ambient Air Temperature Sensor
- Transmission Oil Temp Sensor
- Camshaft Position Sensor
- Coolant Temperature Sensor
- Crankshaft Position Sensor
- Air Intake Temp Sensor
- Knock Sensor
- MAP Sensor
- Throttle Position Sensor
- Vehicle Speed Sensor

2018 RAV4
32 Sensors

- ABS Speed Sensors X 4
- Ambient Air Temperature Sensor
- Transmission Input Sensor
- Transmission Output Sensor
- Battery Current / Volt Sensor
- Blind Spot Detection Sensors X 2
- Brake Pedal Travel Sensor
- Camshaft Position Sensors X 2
- Coolant Temperature Sensor
- Crankshaft Position Sensor
- Cruise Control Distance Sensor
- Knock Sensor
- MAP Sensor
- Front Park Assist Sensors X 4
- Rear Park Assist Sensors X 4
- TPMS Sensors X 4
- Vehicle Speed Sensor
- Windshield Washer Level Sensor

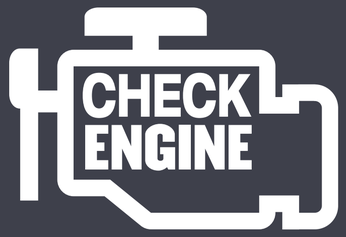
STANDARD® SENSORS

Impact on Engine Systems



Sensors on modern vehicles are becoming more complex. Some ABS speed sensors include multiple sensors that also measure the direction of the wheel rotation

Any sensor that measures vehicle position, speed, throttle position, wheel speed, or proximity can affect the performance of electronic safety systems



A faulty cam sensor can cause an extended crank situation. When the vehicle is being started, the engine may just continue rotating as the computer is looking for enough information

STANDARD® SENSORS

A Complete Sensor Program

Standard® offers more than 80 different kind of Sensors across multiple categories. The Standard Sensors Program includes Chassis and Drivetrain Sensors, Fluid Level Sensors, Fuel Sensors, Position Sensors, Temperature Sensors, Pressure Sensors ADAS Sensors, and more.

Standard® Sensors are engineered and tested for precision and will integrate correctly with the complex systems on today's vehicles.

Standard® Sensor Program

Chassis & Drivetrain Sensors

ABS Speed Sensors

Vehicle Speed Sensors

Transmission Input and Output Sensors

Turbocharger Speed Sensors

Fluid Level Sensors

Engine Oil Level Sensors

Coolant Level Sensors

Windshield Washer Level Sensors

Brake Fluid Level Sensors

Fuel Level Sensors

ADAS Sensors

Park Assist Sensors

Blind Spot Detection Sensors

Steering Angle Sensors

Cruise Control Distance Sensors

Fuel Sensors

Knock Sensors

Mass Air Flow Sensors

Diesel Injection Control Pressure Sensors

Diesel Nitrogen Oxide (NOx) Sensors

Fuel / Water Separator Sensors

Flex Fuel Sensors

Position Sensors

Crankshaft Position Sensors

Camshaft Position Sensors

Throttle Position Sensors

Fuel Vapor / Vent Pressure Sensors

Accelerator Pedal Position Sensors

Camshaft and Crankshaft Position Sensors

EGR Valve Position Sensors

Temperature Sensors

Coolant Temperature Sensors

Intake Air Temperature Sensors

Cylinder Head Temperature Sensors

Exhaust Gas Temperature Sensors

Ambient Air Temperature Sensors

Cabin Air Temperature Sensors

Pressure Sensors

TPMS Sensors

MAP Sensors

Fuel Pressure Sensors

EGR Valve Pressure Feedback Sensors

Exhaust Back Pressure Sensors

Diesel Particulate Filter Pressure Sensors

...and others

STANDARD® ABS SPEED SENSORS

What's New

New vehicles with complex safety systems depend on real-time data from ABS sensors. Standard® delivers new numbers to make sure you have the coverage needed to get your customers back on the road.

For the most recent applications check the online catalog at www.standardbrand.com.

ALS3268
Ford Super Duty
(2016-2011)
VIO: 1.2M

ALS3282
Audi / VW Cars and SUVs
(2022-2019)
VIO: 797K

ALS3340
Toyota Corolla
(2022-2019)
VIO: 823K

STANDARD® CAM AND CRANK SENSORS

What's New

Standard® offers more than 1,100 Cam and Crank Sensors, representing 698 million repair opportunities. New Sensors are introduced regularly to make sure you have the late-model coverage you need.

For the most recent applications check the online catalog at www.standardbrand.com.

PC1233
Camshaft Sensors
Ford Super Duty
(2021-20)
VIO: 139K

PC1200
Camshaft Sensors
Hyundai / Kia
Cars and SUVs
(2020-2017)
VIO: 136K

PC1230
Crankshaft Sensors
Toyota Cars and SUVs
(2021-18)
VIO: 1.05M

STANDARD® MAP SENSORS

What's New

Standard® offers more than 330 MAP (Manifold Absolute Pressure) Sensors, covering 200 million vehicles on the road. Standard® is committed to regularly introducing new MAP sensors to cover late-model import and domestic vehicles.

For the most recent applications check the online catalog at www.standardbrand.com.

AS727
GM Cars and Trucks
(2020-19)
VIO: 51K

AS733
GM SUVs
(2019-2017)
VIO: 15K

AS735
Hyundai / Kia Cars
(2020-2019)
VIO: 138K

STANDARD® ABS SPEED SENSORS

Top Movers

IMPORT APPLICATIONS

ALS1442
Nissan Cars
(2013-07)

ALS1564
Honda / Acura Cars
(2012-08)

ALS1553
Honda / Acura Cars
(2012-09)

ALS684
Toyota / Lexus Trucks & SUVs
(2022-03)

ALS468
Audi / VW Cars
(2016-06)

DOMESTIC APPLICATIONS

ALS1932
Dodge / Jeep SUVs
(2017-07)

ALS1918
Jeep SUVs
(2018-07)

ALS482
GM Trucks & SUVs
(2014-07)

ALS1465
GM Trucks & SUVs
(2013-00)

ALS2380
Ford Cars, SUVs & Vans
(2018-13)

STANDARD® ABS SPEED SENSORS

Engineering & Performance

The ABS speed sensors on some newer vehicles measure more than just the speed of each wheel. They also monitor the direction which the wheel is rotating. A wheel that is rotating backwards will send a unique signal to the ECU that lets the vehicle know the speed and direction of each wheel. This data is used by the electronic safety systems to help keep everyone in the vehicle safe.

Aftermarket Competitor

Uses one simple sensor to measure wheel speed

Generates the same signal for forward and reverse

Doesn’t give the ECU enough information, especially in emergency situations

Standard® ALS684

Uses multiple micro sensors to measure wheel speed and wheel rotation

Generates separate signals for forward and reverse

Provide the ECU with accurate and complete information to keep crash avoidance systems operating as designed

STANDARD® CAM AND CRANK SENSORS

Top Movers

IMPORT APPLICATIONS

PC934
Hyundai / Kia Cars & SUVs
(2022-11)

PC715
Nissan Trucks & SUVs
(2020-05)

PC499
Nissan / Infiniti Cars & SUVs
(2008-02)

PC775
Nissan / Infiniti Cars & SUVs
(2020-06)

PC812
Honda Cars
(2015-08)

DOMESTIC APPLICATIONS

PC684
Chrysler, Dodge & Jeep
Cars, Trucks & SUVs
(2017-07)

PC278
GM Cars, Trucks & SUVs
(2018-08)

PC552
GM Cars, Trucks & SUVs
(2007-00)

PC643
Ford Trucks & Vans
(2011-97)

PC244
Chrysler, Dodge & Jeep
Cars, Trucks & SUVs
(2007-99)

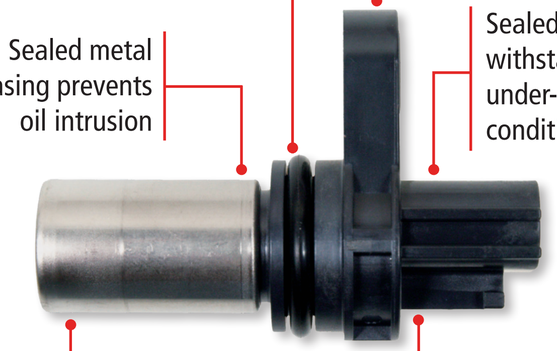
STANDARD® QUALITY

Cam and Crank Sensors

Today's advanced engines depend on information from cam and crank sensors to make thousands of decisions per mile about fuel and ignition. Failing or low-quality sensors can affect fuel economy and vehicle performance.

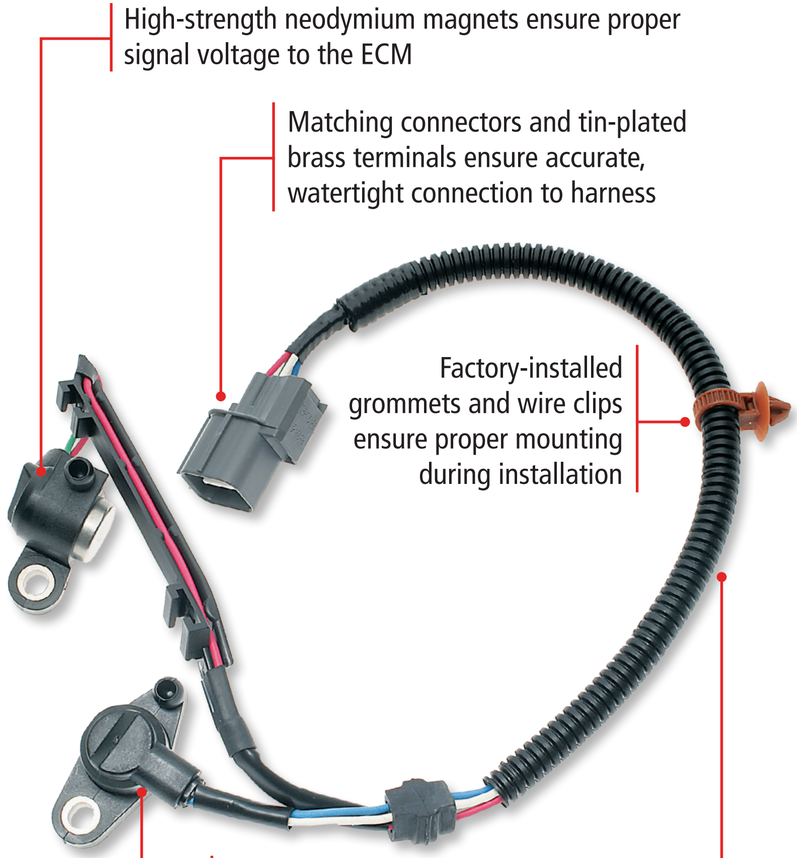
Standard® considers every signal detail to deliver a Sensor that operates correctly in all conditions.

Standard®
Camshaft Position Sensors



PC464
Nissan
(2018-02)

Standard®
Crankshaft Position Sensors



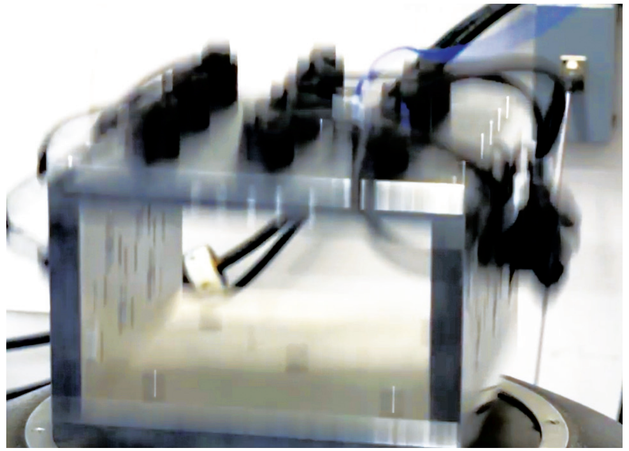
PC133
Honda/Acura
(2002-96)

STANDARD® TESTING

Cam and Crank Sensors

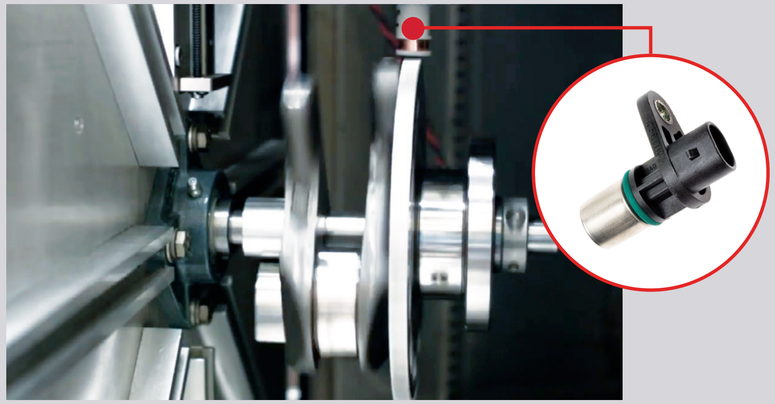
Standard® Cam and Crank Sensors are manufactured in our North American TS16949-certified facility and are rigorously tested for pulse width and signal amplitude.

Standard® Camshaft Position Sensors



Standard® Camshaft Position Sensors are subjected to 48-68 hour vibration tests across multiple planes. This helps to ensure correct and accurate performance in any situation.

Standard® Crankshaft Position Sensors



Standard® Crankshaft Position Sensors undergo intense chamber testing from -40 to 257 degrees. Our extensive testing helps protect against incorrect voltage output and short circuits to maintain accuracy in all conditions.

STANDARD® MAP SENSORS

A Closer Look

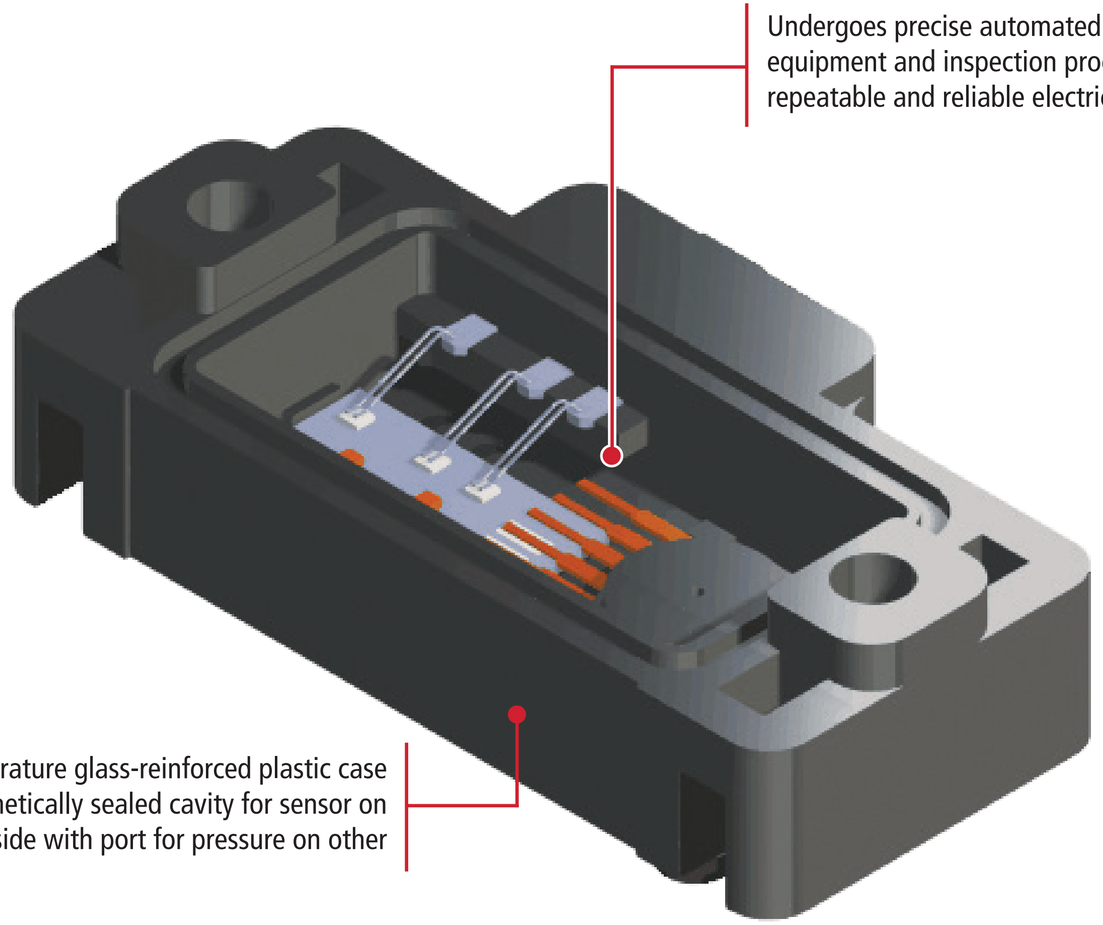
MAP sensors convert vacuum/manifold pressure to an electric signal. The real-time information is used for both fuel delivery and ignition.

Standard® MAP Sensors are 100% tested to make sure variations in pressure generate the correct output to match OE performance in all conditions.

Did you Know

Many modern turbocharged engines use both MAP and MAF sensors.

Standard® MAP Sensors



AS5
GM
(2004-85)

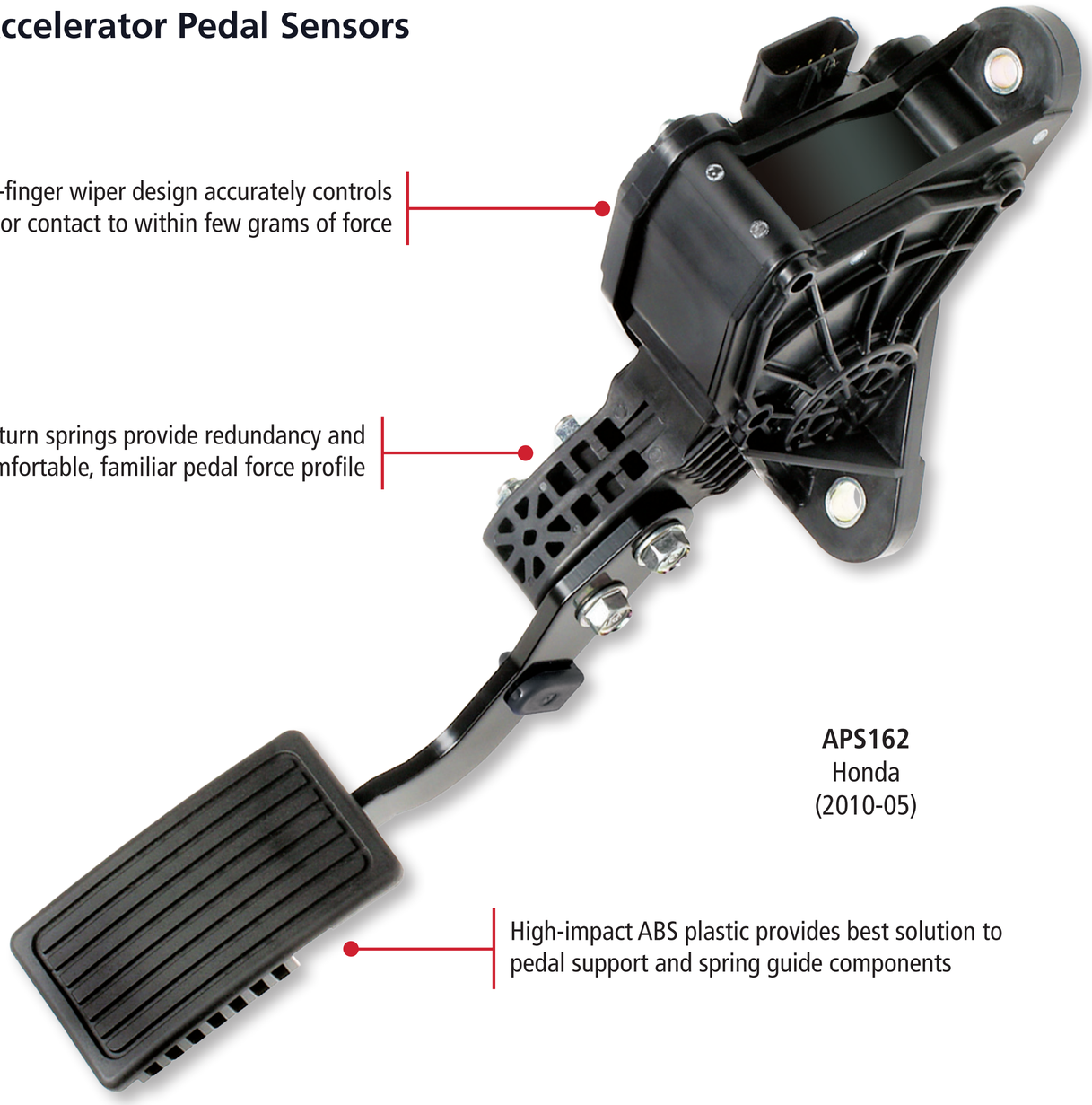
STANDARD® SENSORS

Accelerator Pedal Sensors

The performance and accuracy of Accelerator Pedal Sensors is critical to vehicle performance, fuel economy and safety. Standard has over 425 Accelerator Pedal Sensors, covering 250 million vehicles.

Standard Sensors undergo intense testing to make sure the output matches the slope and linearity of the original in all pedal positions.

Standard®
Accelerator Pedal Sensors



APS162
Honda
(2010-05)

STANDARD® SENSORS

ADAS Sensor Program

Advanced Driver Assistance Systems rely on multiple sensors to provide real-time data to both the driver and the vehicle. Sensors that have failed or are not correctly calibrated may put the motorist and the occupants at risk.

StandardADAS.com includes the most-up-to information on our latest ADAS Components.

Blind Spot Detection Sensors

Standard® BSD Sensors are direct-fit replacements to ensure proper fit and performance. All BSDs undergo extensive quality testing and product validation.

123 SKUs / 46M Repair Opportunities

Cruise Control Distance Sensors

Designed and manufactured to stringent quality standards to match the original for an easy install and to deliver precise performance.

71 SKUs / 32M Repair Opportunities

Steering Angle Sensors

Standard® Steering Angle Sensors are rigorously tested for fit, form and precise performance to match the original application they are replacing.

264 SKUs / 205M Repair Opportunities

Park Assist Sensors

Standard® Park Assist Sensors are direct-fit replacements utilizing advanced ultrasonic technology that exactly matches the detection capabilities of the original sensors.

86 SKUs / 425M Repair Opportunities

STANDARD® SENSORS

TPMS Program

Standard® offers both QWIK-SENSOR® Multi-frequency Sensors and pre-programmed OE- Match Sensors. The QWIK-SENSOR® can be quickly programmed to fit almost any vehicle. OE-Match Sensors can be installed right out of the box, without any programming.

StandardTPMS.com features additional information on our TPMS Sensors, Service Kits, and Programming Tools.

QWIK sensor® MULTI-FREQUENCY Programmable TPMS Sensors

Available with rubber or metal valve stems

Can be programmed on or off of the vehicle

Works on both domestic and import vehicles with 314.9 MHz to 434 MHz systems

Military-grade lithium battery for maximum battery life

STANDARD OE-Match TPMS SENSORS

More than 230 SKUs for the industry's best coverage

Pre-programmed at the factory with exact OE protocol, so it's ready to install

Direct-fit replacement that matches the fit and performance of the original

Military-grade lithium battery for maximum battery life

STANDARD® TPMS PROGRAM

Manufacturing and Testing

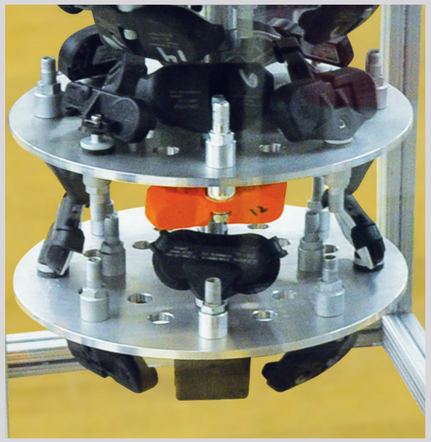
All Standard® TPMS Sensors are designed and manufactured to meet the latest SAE2657 specifications.

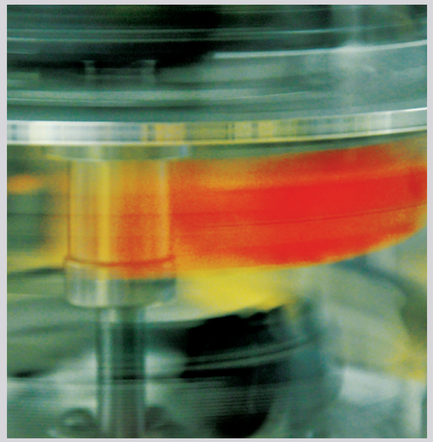
Our TPMS Sensors are subjected to multiple tests for operational temperature, thermal shock, extreme temperatures, humidity, contamination, salt fog, centrifugal force and mechanical testing. The result is a Sensor that works correctly in all conditions, and lasts.

StandardTPMS.com features additional information on our TPMS Sensors, Service Kits, and Programming Tools.

Standard® TPMS Manufacturing

Our facility produces more than a million Sensors each year and has earned multiple certifications, including US FCC, European E-Mark, and Canada IC while meeting FMVss138,SAE J2657, ISO9001 and IATF16949 quality standards.





Standard® TPMS Testing

To make sure our TPMS Sensors last, we subject them to a high-speed Accelerated Life Test.

STANDARD® SENSORS

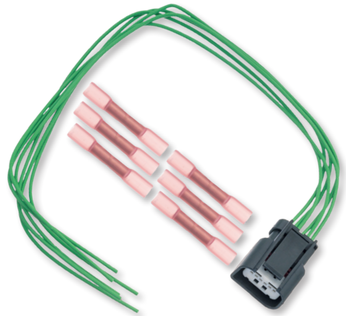
Related Parts

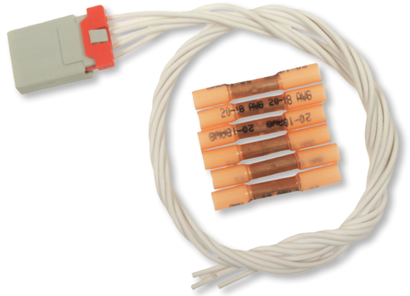
Sensor Connectors

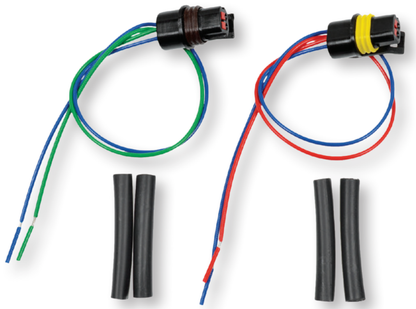
In addition to over 80 different Sensors, we also offers thousands of connectors that you may need to get your customers back on the road.

To find the connector you are looking for, visit StandardBrand.com.

Standard® Sensor Connectors







ABS Sensor Connectors

Cruise Control Distance Sensor Connectors

Knock Sensor Connectors

Accelerator Pedal Sensor Connector

EGR Valve Position Sensor Connectors

Mass Air Flow Sensor Connector

Air Intake Temperature Sensor Connectors

Engine Oil Level Sensor Connectors

Misfire Sensor Connector

Ambient Air Temperature Sensor Connectors

Engine Oil Temperature Sensor Connectors

Oxygen Sensor Connector

Blind Spot Detection Sensor Connectors

Engine Speed Sensor Connectors

Park Assist Sensor Connectors

Camshaft Position Sensor Connectors

Exhaust Gas Temperature Sensor Connectors

Steering Angle Sensor Connectors

Crankshaft Position Sensor Connectors

Fuel Pressure Sensor Connectors

Vehicle Speed Sensor Connectors

…and more

Standard® Pro Training Tech Tip

As experienced ASE-certified automotive technicians themselves, Standard® Pro Trainers are experts in engine and sensor technology.

Here’s what they say to look out for when replacing a sensor.

When replacing a crankshaft position sensor, make sure the appropriate relearn is performed. Failing to do this may cause the vehicle to misfire and run poorly

Some sensor failures could be masked by “default strategy.” Be sure to follow the correct diagnostic procedure and clear the memory after a repair

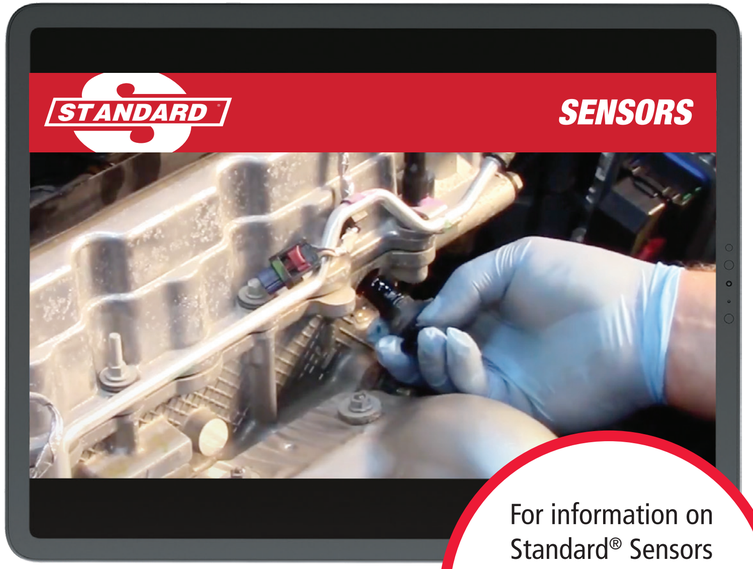
STANDARD® SENSORS

Standard® Professional Training

Award-Winning In-Person, Live Virtual, and Online Learning

Standard® Pro Training delivers accredited classes that educate technicians in the latest automotive repair technologies, and techs can earn CEU credits.

An extension of Standard® training, our extensive ADA-compliant YouTube professional installation video library has over 40 million views and 50,000+ channel subscribers.



For information on Standard® Sensors search "Sensors" "TPMS" or "ADAS" on the StandardBrand YouTube Channel

PRO TRAINING ON-DEMAND

Available Classes

- GM Electric Powertrain Management
- SENT Sensor Overview
- Rapid Sensor and Circuit Testing
- Vehicle Electronic Fundamentals 1-7
- Brain Teasers
- Labscope

Visit StandardBrandTraining.com

IN-PERSON TRAINING

PRO TRAINING ON-SITE

Available Classes

- Powertrain Electronics
- Body Control Electronics Diagnosis
- Ignition System and Cam/Crank Synchronization
- Labscope Power User
- Misfire Diagnosis
- Unleash The Power Of Your Scan Tool
- Torque Management and Electronic Throttle Control