

SENSOR PROGRAM

1

Standard® offers more than 9,000 different Sensors in nearly 90 categories

2

Standard® provides industry-leading coverage with 2,500 ABS Speed Sensors

3

Standard® Sensors use the latest technology to optimize accuracy, speed and durability.

**What's in your box?™
Here's what's in ours.**



Growing Market

The number of sensors on modern vehicles continues to grow. The addition of electronic safety systems and advancements in internal combustion engines to improve performance while reducing emissions have created multiple new sensor categories.

With more than 9,000 Sensors already available, Standard® is committed to continually developing the latest sensor technology to meet the demands of professional technicians.

Source: StandardBrand.com eCatalog

Standard® Chevrolet Silverado 1500 Sensor Coverage

2000 Chevrolet Silverado 1500

20 Sensors



2018 Chevrolet Silverado 1500

40 Sensors



We offer
2X as many
sensors for a
2018 Silverado
compared to a
2000 model



Sensors

StandardBrand.com

Impact on Vehicle Systems



**Many sensors operate in a
harsh environment
(heat, dirt, fluids, etc.).**

**When a new sensor is
installed, also replace the
related connector**



**Control modules are
continually monitoring and
processing the data received
from a vehicle's onboard
sensors. In some cases, a
trouble code may be set for
one system, but it may be an
unrelated sensor that is at
fault**



**Every diagnosis should
begin with a complete
vehicle scan. Sensor
failures in companion
systems may put other
systems in a default
mode**

Accuracy, Speed, and Durability

Modern vehicles are equipped with more sensors than ever before. Standard's state-of-the-art Sensors are designed with multiple features to optimize accuracy, speed, and durability, and provide today's vehicle systems with the information they require to operate properly.



Accuracy

Consistency and accurate performance is driven by advanced circuitry, OE-matched connectors, and meticulous assembly processes

Standard® Sensors are protected against electromagnetic interference for accurate, long-term performance in all conditions



Speed

Deliver the data that vehicles need in real-time to keep every system operating as designed - no delays

Undergo rigorous testing for operational temperature, extreme conditions, humidity, contamination, and mechanical service to ensure peak speed and performance



Durability

Integrated waterproof connectors keep moisture out

High-strength material and sealed cases prevent intrusion of dirt and debris

Protective sleeve prevents wires from chafing and creating short circuits*

*(where applicable)



Sensors

StandardBrand.com

A Complete Sensor Program

Standard® offers nearly 90 different types 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
Brake Pad Wear Sensors
Brake Pedal Position Sensors
Ride Height Sensors
Transmission Input and Output Sensors
Turbocharger Speed Sensors
Vehicle Speed Sensors

Position Sensors

Accelerator Pedal Position Sensors
Camshaft Position Sensors
Crankshaft Position Sensors
EGR Valve Position Sensors
Fuel Vapor / Vent Pressure Sensors
Throttle Position Sensors

Fluid Level Sensors

Brake Fluid Level Sensors
Coolant Level Sensors
Engine Oil Level Sensors
Fuel Level Sensors
Windshield Washer Level Sensors

ADAS Sensors

Blind Spot Detection Sensors
Cruise Control Distance Sensors
Park Assist Sensors
Steering Angle Sensors

Fuel Sensors

Diesel Injection Control Pressure Sensors
Diesel Nitrogen Oxide (NOx) Sensors
Flex Fuel Sensors
Fuel / Water Separator Sensors
Knock Sensors
Mass Air Flow Sensors

Temperature Sensors

Ambient Air Temperature Sensors
Cabin Air Temperature Sensors
Coolant Temperature Sensors
Cylinder Head Temperature Sensors
Exhaust Gas Temperature Sensors
Intake Air Temperature Sensors

Pressure Sensors

Diesel Particulate Filter Pressure Sensors
EGR Valve Pressure Feedback Sensors
Exhaust Back Pressure Sensors
Fuel Pressure Sensors
MAP Sensors
TPMS Sensors

...and more



What's New

ABS Speed Sensors

Complex safety systems featured in new vehicles depend on real-time data from ABS sensors. Standard® is regularly delivering new numbers to make sure technicians have the coverage needed to get their customers back on the road.

For the most recent applications, check the online catalog at StandardBrand.com.



ALS3646

Rear
RAM 1500
(2025-19) VIO: 1.4M



ALS3569

Left Front
GM Trucks & SUVs
(2024-21) VIO: 2.9M



ALS3658

Left Front
GM Trucks
(2024-20) VIO: 1M



ALS3375

Front
RAM Trucks
(2018-13) VIO: 801K



What's New

Cam and Crank Sensors

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

For the most recent applications, check the online catalog at StandardBrand.com.



PC1270

Camshaft Sensor
Genesis Cars & SUVs
(2024-21) VIO: 98K



PC1203

Crankshaft Sensor
Genesis / Kia Cars
(2023-18) VIO: 44K



PC1219

Crankshaft Sensor
Toyota Highlander
(2022-17) VIO 1.1M



PC1216

Crankshaft Sensor
Nissan Cars & SUVs
(2024-19) VIO 1M



What's New

MAP Sensors

Standard® offers more than 300 Manifold Absolute Pressure (MAP) Sensors, covering 226 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 StandardBrand.com.



AS706

Dodge / Jeep / Fiat SUVs
(2025-19) VIO: 80K



AS744

Ford Cars, Trucks & SUVs
(2024-19) VIO: 1.8M



AS739

Subaru Cars & SUVs
(2023-19) VIO: 481K



AS732

Hyundai / Kia Cars & SUVs
(2025-19) VIO: 1M



Top Movers: ABS Speed Sensors

IMPORT APPLICATIONS



ALS685

Left Front / Left Rear
Toyota / Lexus
Trucks & SUVs
(2024-03)



ALS1442

Front
Nissan
Cars
(2014-07)



ALS684

Right Rear
Toyota / Lexus
Trucks & SUVs
(2024-03)



ALS1791

Left Front
Toyota
Trucks & SUVs
(2017-07)



ALS1790

Right Front
Toyota
Trucks & SUVs
(2017-07)

DOMESTIC APPLICATIONS



ALS1932

Rear
Dodge / Jeep
SUVs
(2018-07)



ALS1918

Front
Jeep
Wrangler
(2018-07)



ALS1465

Front
GM
Trucks & SUVs
(2014-07)



ALS2249

Front
Ford / Lincoln / Volvo
Cars, SUVs & Vans
(2020-04)



ALS2631

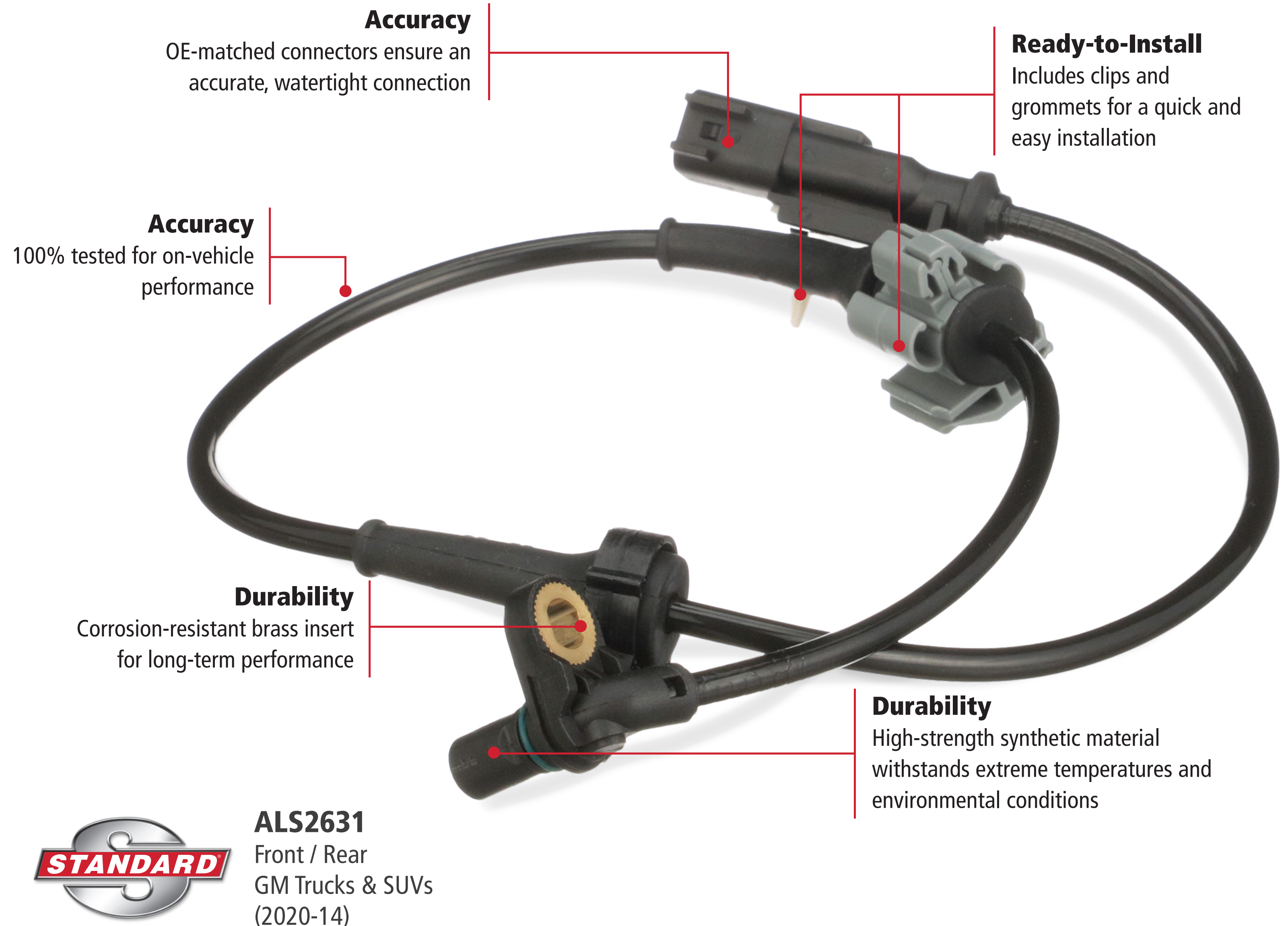
Front / Rear
GM
Trucks and SUVs
(2020-14)



Engineering & Performance

Standard® ABS Speed Sensors are designed to provide consistent performance, matching the OE for precise function. Features such as superior magnetic circuit materials are engineered into our Sensors to deliver higher voltage output and prevent ABS system failure.

Superior design is one reason Standard's ABS Sensors perform like the original.



Engineering & Performance

The ABS speed sensors on some newer vehicles measure more than just the speed of each wheel. They also monitor the direction in 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 that wheel. This data is used by the electronic safety systems to help keep everyone in the vehicle safe.

In recent years, ABS speed sensors have taken on additional responsibilities in safety systems. Electronic stability control, hill hold assist, and automated braking all depend on ABS sensors to function properly.



**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 microsensors 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

Top Movers: Cam and Crank Sensors

IMPORT APPLICATIONS



PC461
Camshaft / Crankshaft Sensor
Nissan / Infiniti
Cars, Trucks, SUVs & Vans
(2021-02)



PC462
Camshaft / Crankshaft Sensor
Nissan / Infiniti
Cars, Trucks, SUVs & Vans
(2017-00)



PC960
Camshaft Sensor
Hyundai / Kia
Cars & SUVs
(2023-11)



PC464
Camshaft / Crankshaft Sensor
Nissan
Cars, Trucks & SUVs
(2018-01)



PC886
Crankshaft Sensor
Audi / Volkswagen
Cars & SUVs
(2023-10)



PC950
Camshaft Sensor
Chrysler / Dodge / Jeep / RAM
Cars, Trucks & SUVs
(2024-11)



PC893
Crankshaft Sensor
Chrysler / Dodge / Jeep / RAM
Cars, SUVs & Vans
(2023-11)



PC915
Camshaft Sensor
Ford / Lincoln
Cars, Trucks, SUVs & Vans
(2024-11)



PC590
Camshaft / Crankshaft Sensor
Dodge / RAM
Trucks
(2020-02)



PC243
Camshaft / Crankshaft Sensor
Chrysler / Dodge / Jeep
Cars & SUVs
(2011-00)

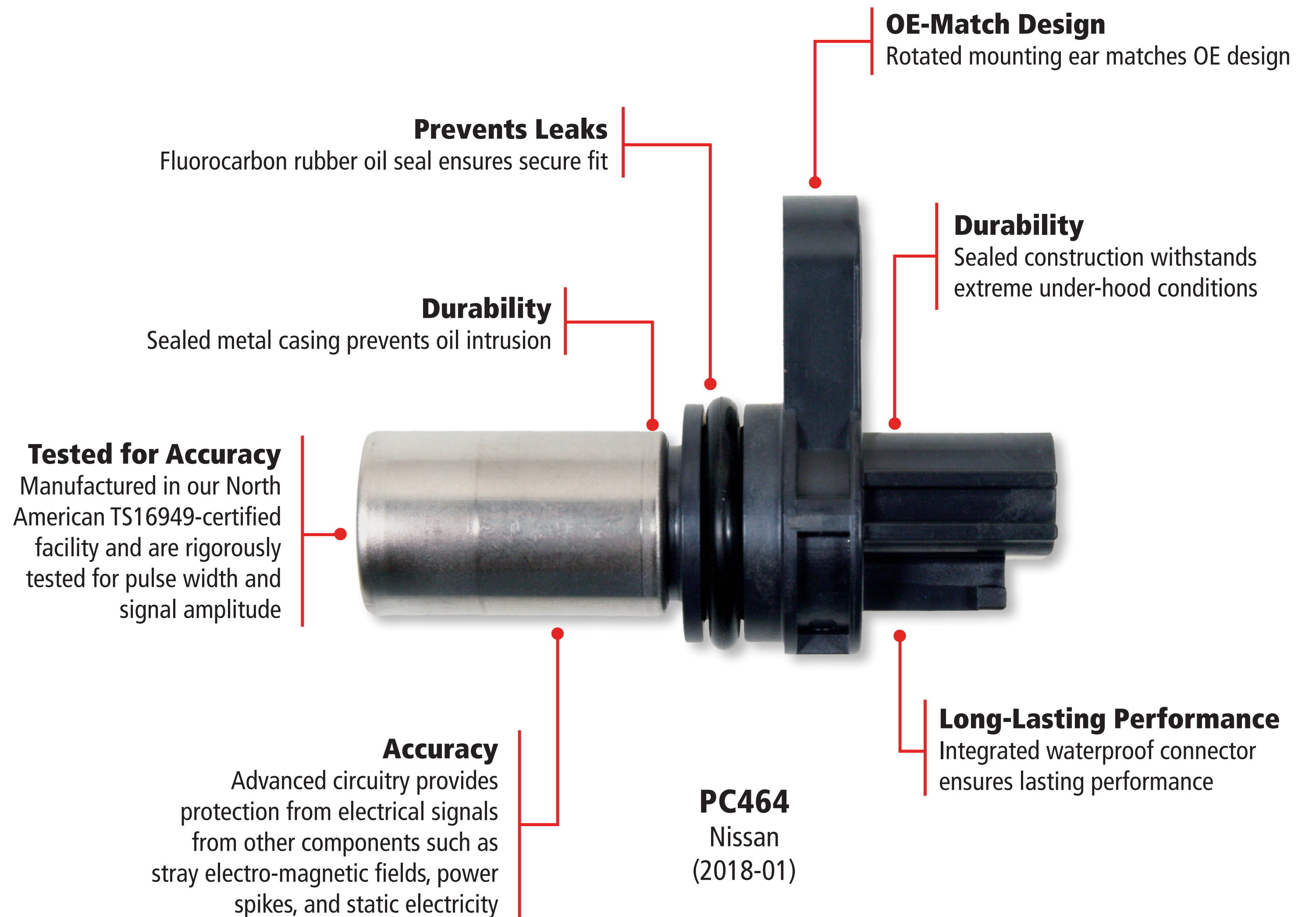


Camshaft Sensors

The performance of variable valve timing on modern engines is dependent on real-time data from the camshaft position sensors. This is why every Standard® Camshaft Sensor is designed for accurate performance, fast processing and long-term durability. We put each unit through end-of-line timing, pulse width, and signal amplitude testing.

Standard® Camshaft Position Sensors include multiple design features for accuracy, speed and durability.

Standard® Camshaft Position Sensors



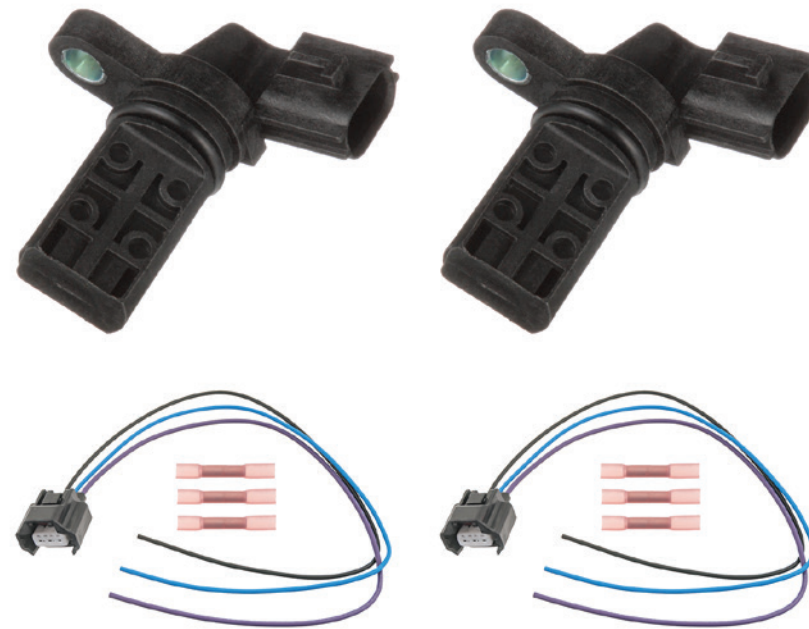
Product Quality

Blue Streak® high-quality Camshaft Sensor Kits provide technicians with all of the parts needed to do the complete job right, every time.

Our enhanced Kits include two Blue Streak® Camshaft Sensors along with the high-quality connectors to replace the melted or damaged original parts.

We offer more than 20 Camshaft Sensor Kits, with more kits on the way.

Blue Streak® Camshaft Sensor Kits



PC458K



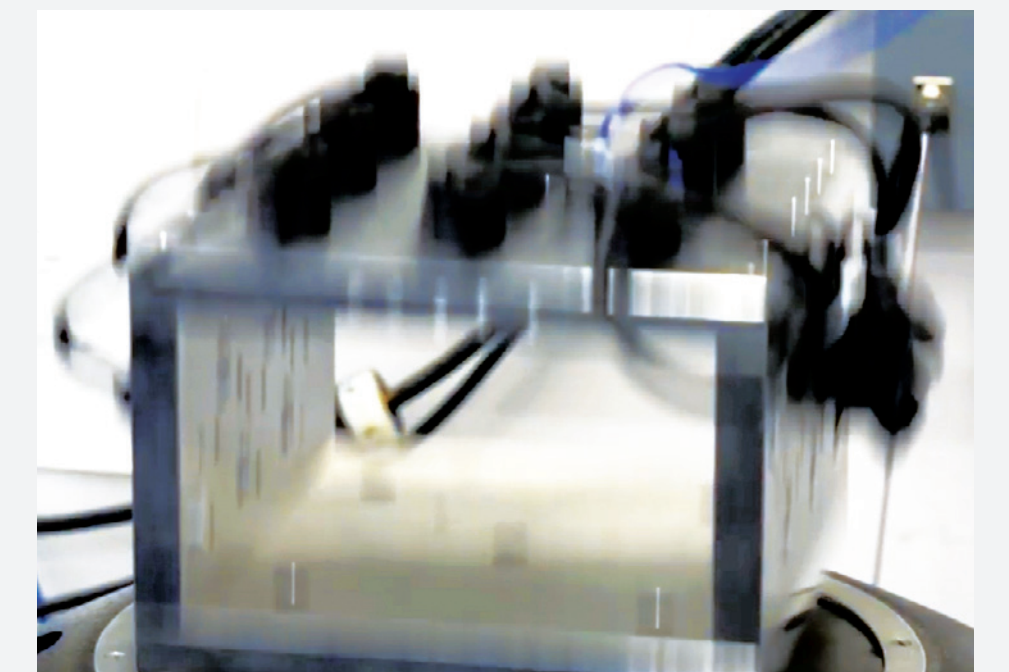
PC460K



PC462K

Testing and Validation

Our Camshaft Sensors undergo 48-to 68-hour vibration tests to ensure performance under the harshest conditions. Each sensor is subjected to end-of-line timing, pulse width, and signal amplitude testing.



Crankshaft Sensors

Correct ignition timing depends on quick and accurate data from the crankshaft position sensors. All Standard® Crankshaft Position Sensors are precision engineered and manufactured for accuracy, speed and durability. To ensure operation under extreme conditions, our Crankshaft Position Sensors are subjected to extensive testing including a 48- to 64-hour-long vibration test across three different planes.

Standard® Crankshaft Position Sensors



Product Quality

Blue Streak® developed high-quality Crankshaft Sensor Kits to provide technicians with what they need to do the complete job.

Blue Streak® Kits contain premium Crankshaft Sensors along with a high-quality electrical connector to replace the melted or damaged original parts.

We offer more than 20 Crankshaft Sensor Kits, with more kits on the way.

Blue Streak® Crankshaft Sensor Kits



PC123K



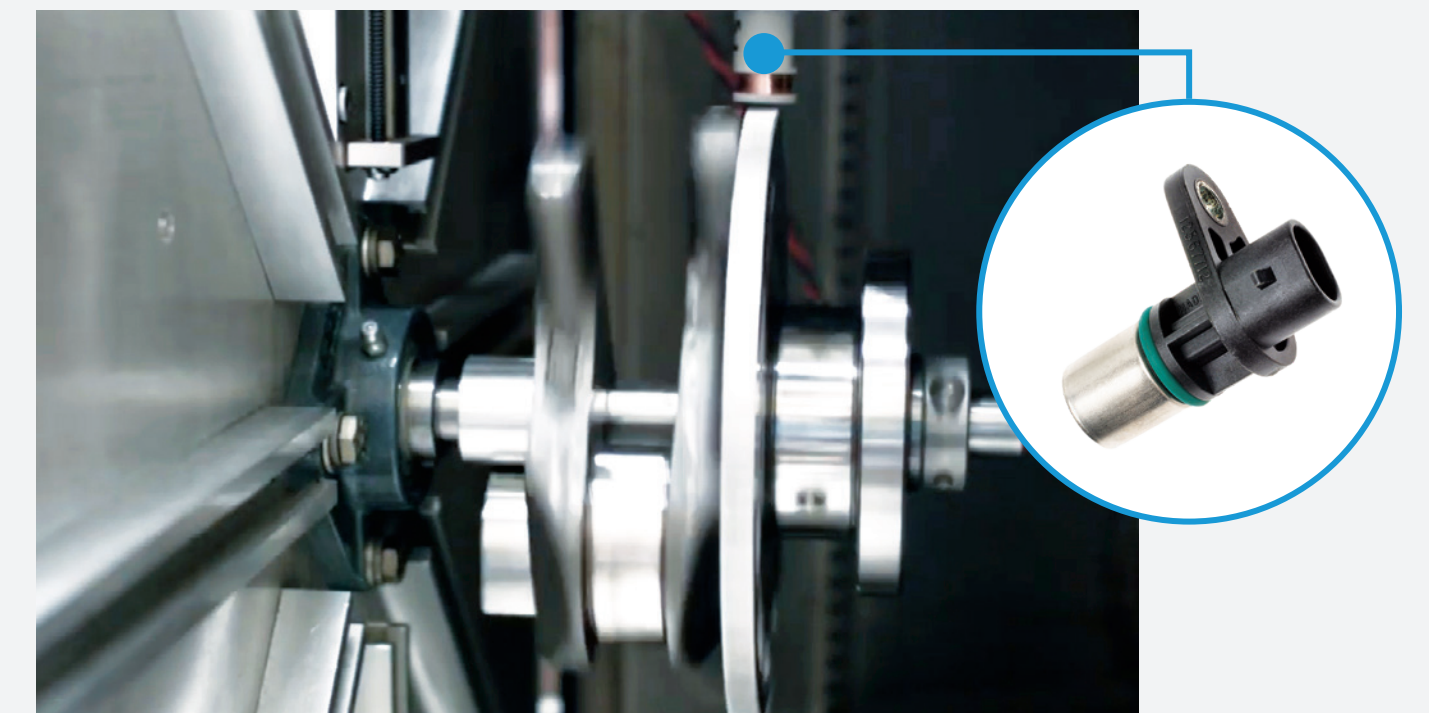
PC243K



PC284K

Testing and Validation

Our Crankshaft Sensors undergo chamber testing that cycles from -40 degrees to 257 degrees Fahrenheit. This testing is performed to ensure our Crank Sensors maintain accuracy during extreme temperature conditions.



A Closer Look

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

Did You Know

Many modern turbocharged engines utilize both MAP and Mass Air Flow (MAF) sensors to provide the vehicle's computer with precise information

Standard[®] MAP Sensors

Accuracy

100% tested to ensure variations in pressure generate the correct output to match OE performance in all conditions

Peak Conductivity

Utilizes precise automated wire bonding and inspection processes to ensure consistent and reliable electrical connections

AS417

Hyundai / Kia
(2024-08)



Durability

High-temperature, glass-reinforced plastic case forms a hermetically sealed cavity for the sensor on one side, with a port for pressure on the other

Accelerator Pedal Sensors

The performance and accuracy of accelerator pedal sensors is critical to safety, vehicle performance, and fuel economy. Standard® has over 400 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® Pro Training Tip

Due to the location of the APS and the amount of moisture or condensation that comes from wet floor mats and/or drivers' wet feet, it is advisable to use dielectric grease on the electrical connector.

Standard® Accelerator Pedal Sensors



Accuracy

Multi-finger wiper design accurately controls sensor contact to within a few grams of force

Precise Control

Features redundancy measures for safety and a comfortable, familiar pedal force profile

Durability

High-impact synthetic polymer construction provides best solution to pedal support and spring guide components

APS265

GM
Trucks & SUVs
(2020-07)



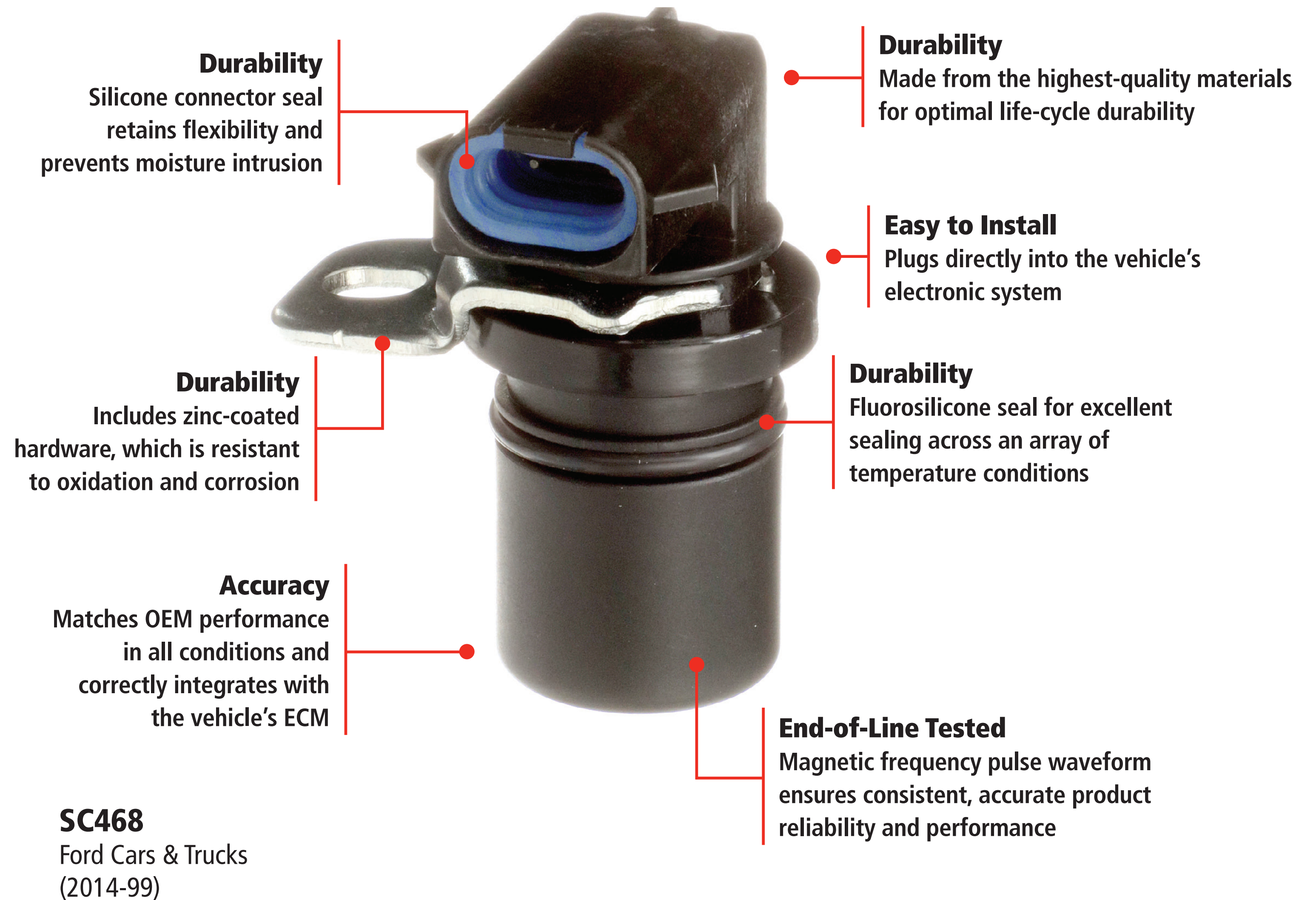
Standard® Quality

As an expert manufacturer, we have complete control of the process to deliver a trouble-free sensor. All Standard® Vehicle Speed Sensors (VSS) undergo environmental and endurance testing for signal amplitude and polarity to ensure consistent product reliability and application-specific performance.

Standard® Pro Training Tip

VSS can be located in various locations such as in the transmission or in the differential. These locations expose the sensor to oil, road debris, and salt. Experts recommend replacing the electrical connector when a new sensor is installed.

Standard® Vehicle Speed Sensors



ADAS Sensor Program

Advanced driver assistance systems (ADAS) 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.

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



Blind Spot Detection Sensors

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

125+ SKUs / VIO: 104M



Steering Angle Sensors

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

270+ SKUs / VIO: 230M



Cruise Control Distance Sensors

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

75+ SKUs / VIO: 37M



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.

200+ SKUs / VIO: 1B



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



- 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



Sensors

StandardBrand.com

Manufacturing and Testing

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

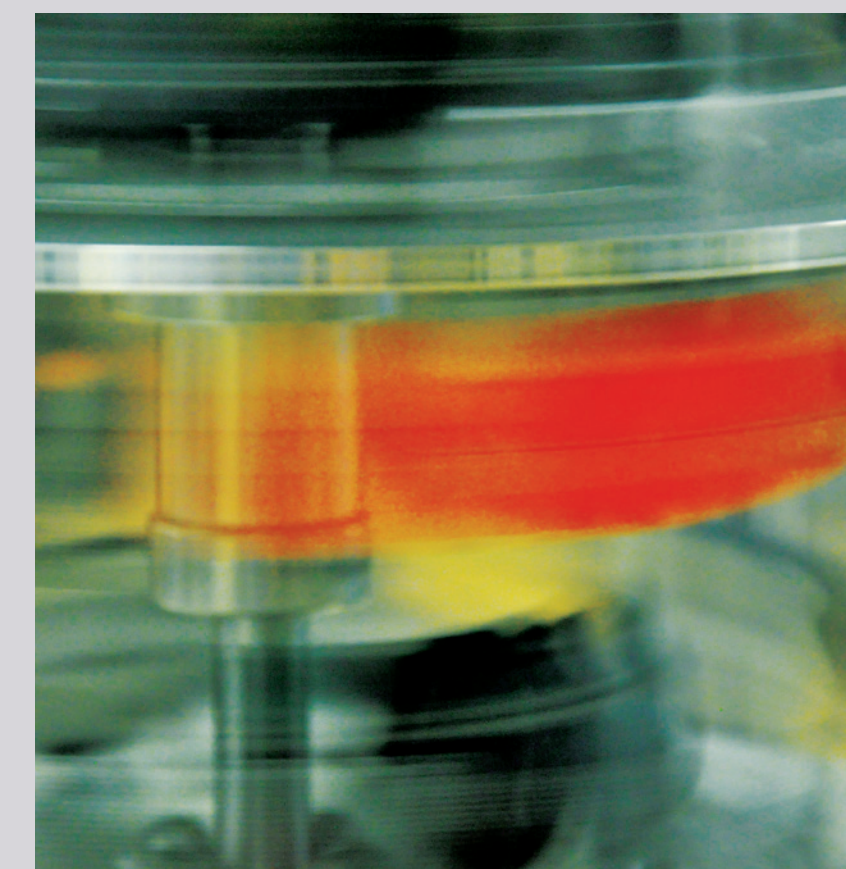
Our TPMS Sensors are subjected to multiple tests for operational temperature, thermal shock, extreme temperatures, humidity, contamination, salt fog, centrifugal force and mechanical testing. The result is a Sensor that works correctly in all conditions, and lasts.

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 FMVSS 138, SAE J2657, ISO 9001 and IATF 16949 quality standards.



Standard® TPMS Testing

To make sure our TPMS Sensors last, we subject them to a high-speed accelerated life test.



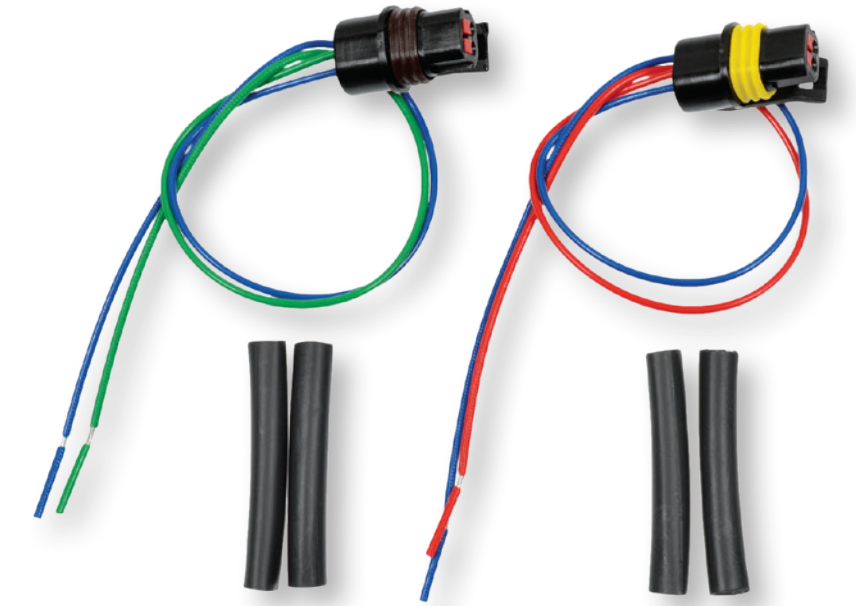
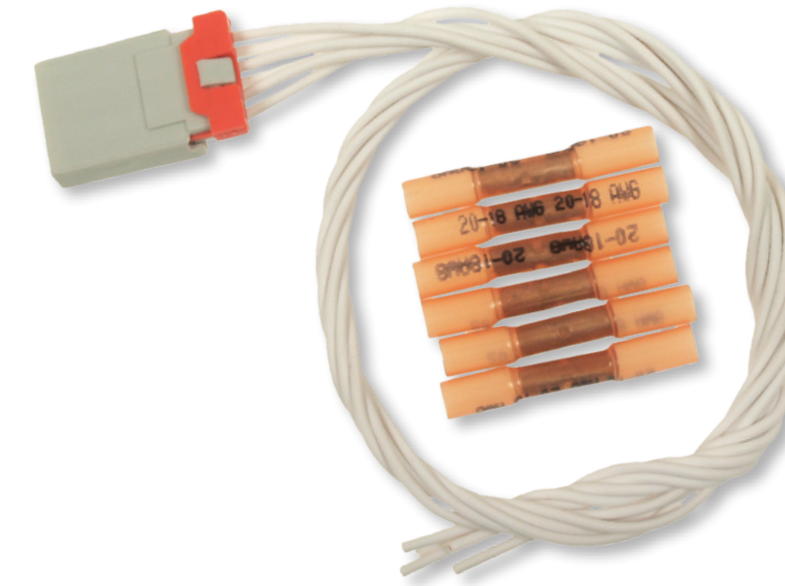
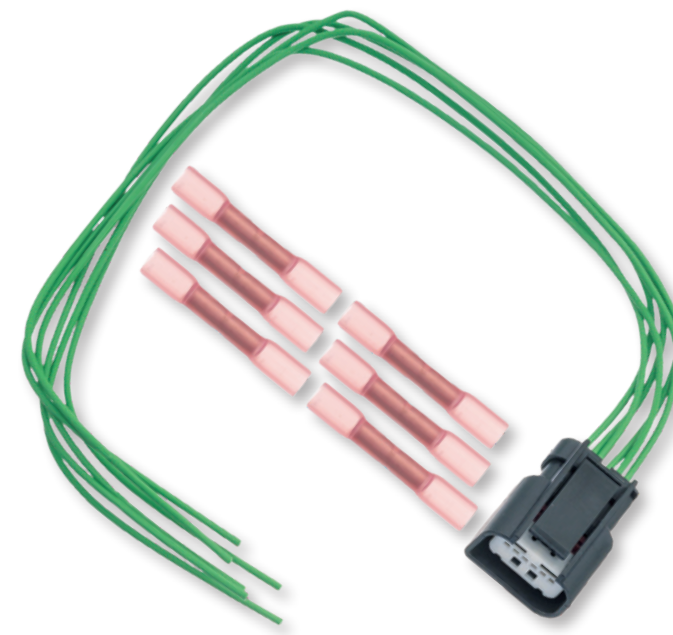
Related Parts

Sensor Connectors

In addition to nearly 90 different Sensor categories, we also offers thousands of Connectors technicians may need to get their customers back on the road.

For a comprehensive look at available Standard's connectors, visit StandardBrand.com.

Standard® Sensor Connectors



ABS Sensor Connectors

Cruise Control Distance Sensor Connectors

Knock Sensor Connectors

Accelerator Pedal Sensor Connectors

EGR Valve Position Sensor Connectors

Mass Air Flow Sensor Connectors

Air Intake Temperature Sensor Connectors

Engine Oil Level Sensor Connectors

Misfire Sensor Connectors

Ambient Air Temperature Sensor Connectors

Engine Oil Temperature Sensor Connectors

Oxygen Sensor Connectors

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



Connector Kits

Electrical connectors are easily damaged in accidents. Even if the connector looks alright, it is still recommended to replace all connectors around the impact area.

Standard® offers several Connector Kits that are popular with both body shops and general repair facilities.

Electrical Assortment Kit



STA35

Includes 16 of the top wire pigtails and sockets

Storage box features individual compartments and an easy-to-read part identification card for convenient reordering

Park Assist Connector Kit



PPS1K

Includes multiple quantities of the 5 most popular Park Assist Sensor Connectors (64 total pieces)

Applications for Asian, European and Domestic vehicles



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



Accelerator pedal position sensors are known for poor connections causing intermittent "limp in/default" throttle conditions. Ensure that the electrical connection is clean and tight

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 YouTube video library has over 700 technical and installation videos.



Available Classes

- Applied Voltage Drop Testing
- Brain Teasers
- GM Electric Powertrain Management
- Labscope
- Modern Cylinder Deactivation Techniques and Tips
- Rapid Sensor and Circuit Testing
- SENT Sensor Overview
- Vehicle Electronic Fundamentals 1-7



Available Classes

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

