



**DENSO**

## DENSO Lambda Sensors

Designed with OEM standards



## Lambda Sensors

The  
DENSO difference

Designed and manufactured to the strictest OEM Standards.  
Subjected to rigorous quality and performance tests.

These are the exceptional standards behind DENSO's Lambda  
Sensors; guaranteed to match each vehicle perfectly every time.

As one of the world's foremost developers and manufacturers of  
OEM systems, DENSO understands Lambda Sensor technology  
better than anyone else.

That advanced engineering, OE quality and superior performance  
is now available to aftermarket customers in our DENSO Lambda  
Sensors programme.

Which is why, when you need a replacement Lambda Sensor,  
there's only one name to choose: DENSO.

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### DENSO Lambda Sensors

Delivering total customer satisfaction

- > Low emissions
- > Reduced fuel consumption
- > Optimum engine performance
- > Original equipment quality and reliability
- > Wide coverage and unique applications  
for Asian and European cars

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Driven by  
Quality



# Role and replacement

The key to reducing emissions

Playing a critical role in reducing engine emissions, it's important to select only the highest quality Lambda Sensors – and to ensure they are part of every vehicle check-up.

Lambda (or Oxygen) Sensors' function is to achieve the lowest possible output of environmentally harmful engine emissions.

Normal ageing, leaded fuels and contamination can all cause Lambda Sensor failure – leading to higher emissions, increased fuel consumption and reduced engine performance. There can even be damage to the Catalytic Converter, causing expensive repairs.

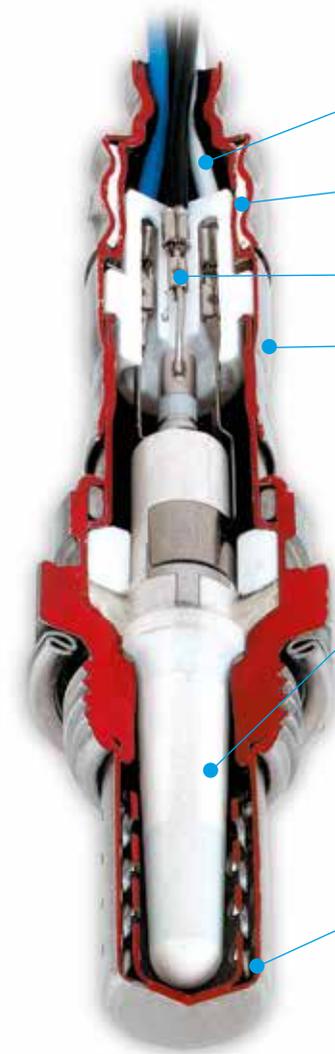
DENSO recommends changing and checking Lambda Sensors as often as specified by the vehicle manufacturer; or more often if the engine is old or showing signs of excessive oil consumption. Whatever the reason, replacing an inefficient Lambda Sensor makes good financial sense; improving fuel economy and reducing costs for the motorist.



# Characteristics

Superior technology

The superior design of DENSO Lambda Sensors reduces harmful emissions, maximises fuel efficiency and enhances engine performance – the perfect recipe for longer engine life.



**Steel core in wires:** The Teflon isolated wires have a core of stainless steel strands for extra strength, surrounded by nickel coated copper wires for good conductivity and low resistance.

**Porous PTFE filter:** Allows atmospheric oxygen to enter the Sensor without permitting water or engine contaminants to seep into the casing.

**Robotic laser welded connection:** Ensures long and reliable operation.

**Stainless steel housing:** Resists corrosion and contamination with a rugged, watertight body.

**Aluminium-oxide double trap layer:** DENSO Lambda Sensors feature a unique protective coating of aluminium oxide on the ceramic element to help ensure the Sensor takes accurate measurements and ensure a long lifetime. The coating helps to:

- > Filter contamination out of the exhaust gases
- > Keep unwanted pollution away from the ceramic element
- > Prevent an early clogging of the Sensor element and/or damage to the platinum electrode (of particular value for cars running with low quality fuel).

The aluminium oxide trap layer therefore plays an active role in delivering optimal emissions, fuel economy, engine performance and prevention of engine damage.

**Double protection cover:** Maintains proper unit temperature for quicker response times and protects the ceramic element against silicone and lead poisoning.



# Advanced technologies

Complete design from DENSO

DENSO Lambda Sensors offer a wide range of applications to help enhance your business. They also feature all the advanced technologies to find the right OEM quality replacements for your customers.

## Sensor types

- > Zirconia Sensors both Thimble and Planar types
- > A/F Sensors both Thimble and Planar types
- > Titania Sensors

## Sensor housing

- DENSO Lambda Sensors are available in two choices of OE quality housing. And with DENSO Sensors, the housing is complete. There's no need for add-on parts such as flange adaptors!
- > Screw type housing
  - > Flange type housing – including OE quality flange gasket

## Sensor fitting

- Whatever your installation need, DENSO's two fitting options will help you make the right connection every time:
- > 'Direct Fit' Sensor – with OEM connector fitted, ready for installation
  - > 'Universal Fit' Sensor – without a connector, enabling you to re-use (and recycle!) the old part's connector

