

## Pressure Sensors

### Threaded

- Threaded sensors are designed to be screwed directly into a port, machined as shown in the drawing. A new O ring should be used each time the sensor is installed. The O rings are available as accessories (please see the relevant Product Summary for the ordercode).
- Various pressure fittings are available on request. Please contact our Technical Consultancy department for further details.

### O Rings

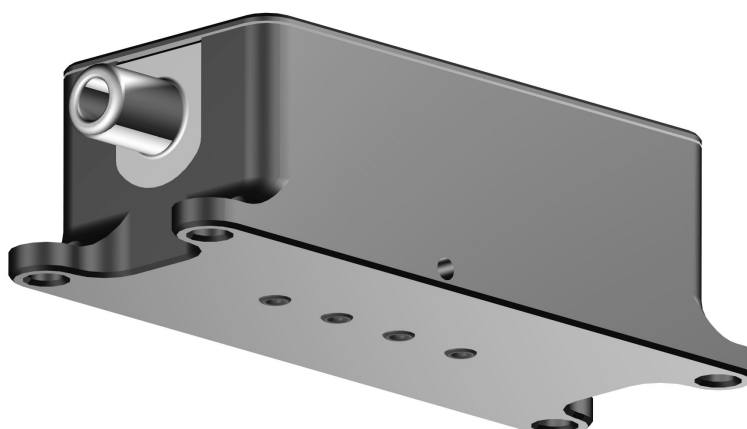
- O 030 330 990 009 - M6 - 200-008 (4.47x1.78mm)
- O 030 330 990 000 - M10 – 202-510 (8x1.6mm)

### Mounting Torque

- M6 – 5Nm (max)
- M10 – 10Nm (max)

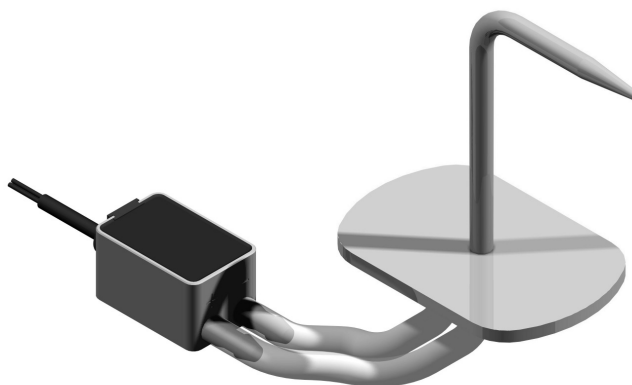


Typical threaded sensor with O-ring seal



Typical pressure module with manifold connection

# Pressure Sensors



Typical pitot sensor

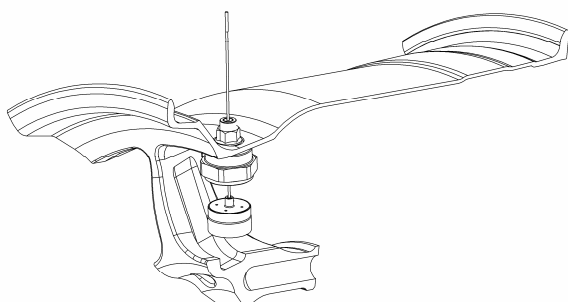
## Tyre Pressure Sensors

### Installation

The tyre pressure sensor is available in a number of variations to suit most wheel mounting configurations.

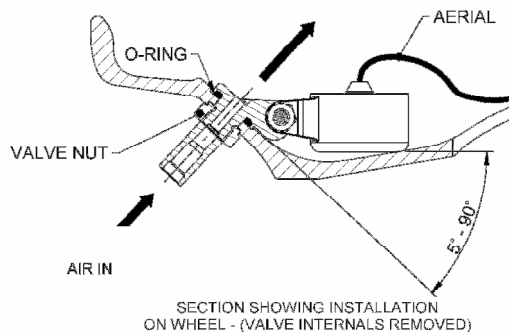
#### External rim mounting

The rim housing is mounted to the rim external to the tyre and is sealed using a bonded seal. The housing remained fitted to the rim at all times.



#### Valve mounted adjustable

The sensor housing incorporates the tyre inflation valve and is mounted to the wheel rim inside the tyre.

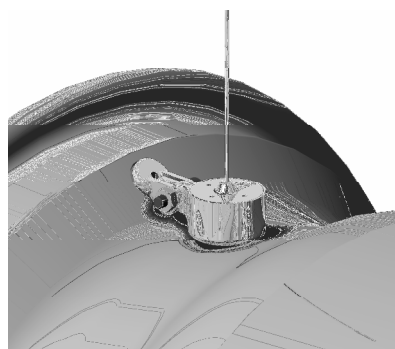


These designs enable the sensor to be fitted to either the inside or outside of the wheel rim or alternatively directly to the valve. The various designs are shown below:-

The standard sensor can then be inserted into the housing which is sealed using an o-ring and secured in place with a circlip. This design enables the tyre to be fitted and balanced without the sensor fitted.



The sensor is hinged at the valve stem which enables the angle to be set to suit the rim profile.

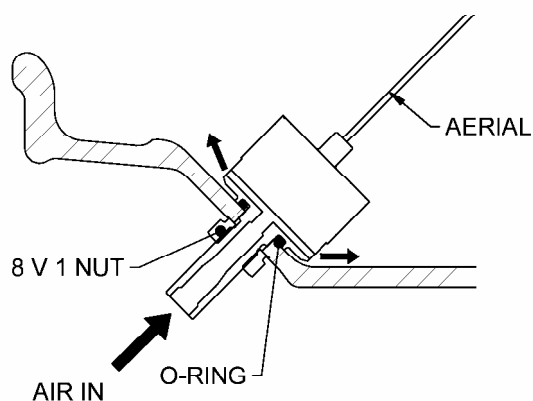


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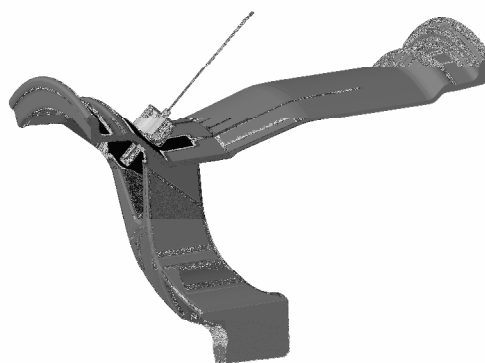
### Valve mounted

The sensor housing is situated directly behind the tyre inflation valve mounted to the wheel rim inside the tyre.

Cross drilled holes within the sensor housing enable the tyre to be inflated through the valve.



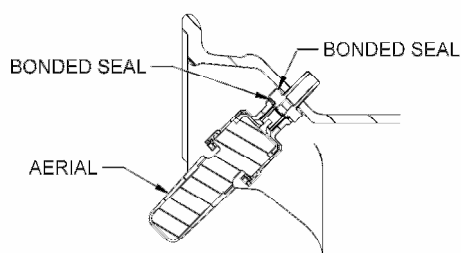
SECTION SHOWING INSTALLATION ON WHEEL  
(VALVE INTERNALS REMOVED)



### NASCAR sensor

This sensor has been designed for use where it is not possible for the sensor or aerial to be positioned inside the tyre, this may be due to the rim profile or the addition of an interliner tyre. The sensor housing is mounted directly only the existing valve stem where a compression pip depresses the valve pressurising the sensor.

It is important that the correct valve length is used, this can be controlled by use of a spacer to ensure that the sensor seals against the bonded seal. The antenna cover must not be used to tighten the sensor.



SECTION SHOWING INSTALLATION ON WHEEL  
(VALVE INTERNALS REMOVED)

