

STACK
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ST747 0-10 Bar / 150 PSI

PRESSURE SENSOR (1/8 NPTF)

USER INFORMATION

(ST541047-004)

INSTALLATION

It is essential to ensure that these devices are **NOT** mounted in a position, which is close to any devices, or associated wiring, similar to the following:

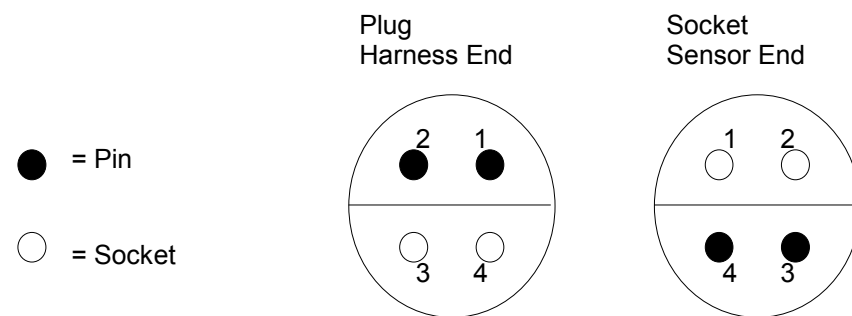
Suggested Wiring Clearances	Min space ST747
Ignition HT & coil leads	75mm (3")
Radio transmitters	50mm (2")
Fast switching inductive loads like fuel injectors, hydraulic solenoids.	50mm (2")
Any powerful source of heat	Shield with reflective material

Although it is possible to mount the sensors directly to the engine block, if the engine vibration is excessive, it is recommended that they are mounted indirectly, if possible, using flexible connections.

All STACK pressure sensors will withstand an over-pressure of only double their working maximum. Therefore, it is recommended that they be connected via an in-line pressure restrictor to eliminate the possibility of damage from any short high-pressure pulses, which may exist. If an adaptor is required to enable mounting of the transmitter it is possible to incorporate the restrictor into this part. The restriction should take the form of a 1mm diameter x 25mm long hole.

Sensor Connections

Sensors connect into Stack Systems via a four way, Mini Sure Seal (MSS) connector. The following polarity is observed in all cases:



These terminals must be connected to the corresponding terminals of the selected input channel.

Pin Number	Signal Description
1	Output from sensor
2	5v supply voltage
3	No connection
4	0v

ST747 TECHNICAL SPECIFICATION

Range	10 Bar
Over-range	20 Bar
Resolution	100 mB
Accuracy	2%
Accuracy/Temp	3%
Output Voltage	0.5 – 4.5 volts
Working Temp	-30 to +120 Degrees Centigrade
Storage Temp	-40 to +140 Degrees Centigrade
Vibration	15G (33.3 to 200 Hz)
Pressure Port	1/8" NPTF Male
Sealing	IP65