

TECHNICAL DOCUMENTATION	20/02/2009	PRESSURE	Brake pressure sensors 0-150 PSI
Notes: technical documentation, dimensions and pinout of brake pressure sensors 0-150 PSI – Release 1.01			



0-150 PSI pressure sensor

AIM can not be held responsible for wrong mountings made by the user. It is suggested to make installation at a specialised garage.

1 – Sensor configuration with MXL and EVO systems

After sensor installation and connection to AIM data logger, making sure that the channel the sensor is connected to has a +Vb output, it is required to configure the logger so to sample correct data. Configuration must be done using **Race Studio 2** software, properly designed and developed by AIM, downloadable for free from www.aim-sportline.com. Refer to software installation manual for software and AIM USB driver installation.

2.1 – Setting the sensor on the channel

In order to sample the information transmitted by the sensor, the analog channel to which it has been connected must be set. The image on the right shows an EVO3 Pro channels table.

The sensor appears in the list under the name “MSI 0-150 PSI”, in the “Used sensor” column.

Select the measure unit: Bar or PSI.

It is reminded to select a channel that has a +Vb output.

ID	Abil.	Nome canale	Pres.	Sensore usato	Unità	Decimale	Fondobusta
SPD_1	<input type="checkbox"/>	ABILITATO Speed_1	10 Hz	Velocità	km/h	0,0	200,0
SPD_2	<input type="checkbox"/>	DISABILITATO Speed_2	10 Hz	Velocità	mi/h	0,0	200,0
SPD_3	<input type="checkbox"/>	ABILITATO Speed_3	10 Hz	Velocità	mi/h	0,0	200,0
SPD_4	<input type="checkbox"/>	DISABILITATO Speed_4	10 Hz	Velocità	mi/h	0,0	200,0
CH_1	<input type="checkbox"/>	ABILITATO Channel_1	10 Hz	Pressione olio	psi	0,0	0,0
CH_2	<input checked="" type="checkbox"/>	ABILITATO Channel_2	10 Hz	MSI 0-150 PSI	psi	0,0	0,0
CH_3	<input type="checkbox"/>	ABILITATO Channel_3	10 Hz	Temperatura acqua	°C	0,0	0,0
CH_4	<input type="checkbox"/>	ABILITATO Channel_4	10 Hz	Temperatura olio	°C	0,0	0,0
CH_5	<input type="checkbox"/>	ABILITATO Channel_5	10 Hz	Temperatura acqua (FRIGIDA)	°C	0,0	0,0
CH_6	<input type="checkbox"/>	ABILITATO Channel_6	10 Hz	Temperatura olio (FRIGIDA)	°C	0,0	0,0
CH_7	<input type="checkbox"/>	ABILITATO Channel_7	10 Hz	Temperatura acqua (FRIGIDA)	°C	0,0	0,0
CH_8	<input type="checkbox"/>	ABILITATO Channel_8	10 Hz	Temperatura olio (FRIGIDA)	°C	0,0	0,0
CH_9	<input type="checkbox"/>	ABILITATO Channel_9	10 Hz	Temperatura acqua (FRIGIDA)	°C	0,0	0,0
CH_10	<input type="checkbox"/>	ABILITATO Channel_10	10 Hz	Temperatura olio (FRIGIDA)	°C	0,0	0,0
CH_11	<input type="checkbox"/>	ABILITATO Channel_11	10 Hz	Temperatura acqua (FRIGIDA)	°C	0,0	0,0
CH_12	<input type="checkbox"/>	ABILITATO Channel_12	10 Hz	Temperatura olio (FRIGIDA)	°C	0,0	0,0
CALC_GEAR	<input type="checkbox"/>	DISABILITATO Calculated Gear	10 Hz	Calcolo giri	giri/min	0,0	0,0
ACC_1	<input type="checkbox"/>	ABILITATO Acc_1	10 Hz	Accelerazione	g	0,00	0,00
ACC_2	<input type="checkbox"/>	ABILITATO Acc_2	10 Hz	Accelerazione	g	0,00	0,00
LOG_TEMP	<input type="checkbox"/>	ABILITATO DataLogger_Temp	10 Hz	Temperatura	°C	0,00	0,00
BATTI	<input type="checkbox"/>	ABILITATO Battenti	1 Hz	Contatore giri	giri	0,0	0,0

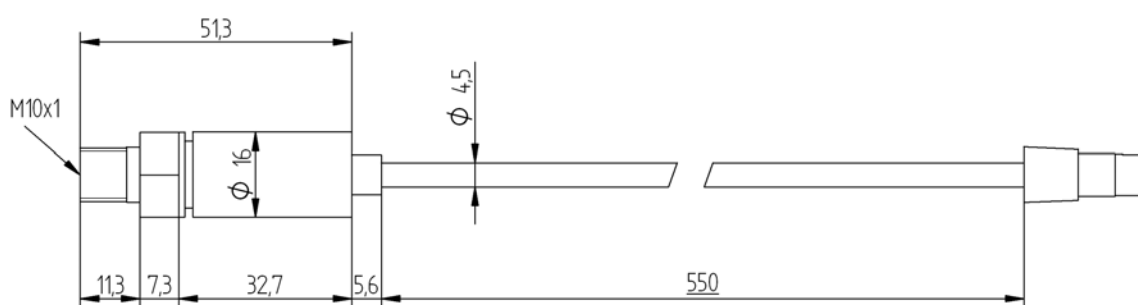
2.2 – Transmitting the configuration

Once the sensor has been correctly configured and set on the desired channel, it is necessary to transmit the configuration to the logger: connect the logger to the PC using the USB cable, switch the logger on and press “Transmit” button in the logger “System Configuration” window.

Warning: refer to Race Studio Configuration user manual for any information concerning “Channels” table (or any button) position as well as for any information concerning AIM logger configurations not expressly introduced in this tutorial.

3 – Dimensions, pinout and technical features

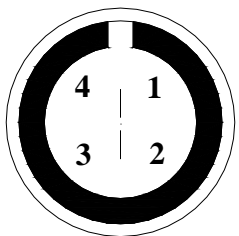
3.1 – Dimensions



Sensore 0-150 PSI – Dimensioni in millimetri

3.2 – Pinout

0-150 PSI Sensor		
Pin	Function	Cable colour
1	Pressure signal 1-5V	White
2	GND	Black
3	Power 10-30 V	Red
4	Not connected	



4 pins Binder 719 male connector pinout:
solder termination view

3.3 – Technical Features

0-150 PSI Sensor	
General characteristics	Value
Measure range	0-150 PSI
Output signal	1-5 V
Power	10-30 V
Cable length	60 cm
Extension	Not included
Thread	M10x1

4 – Part Number

0-150 PSI sensor kit number is:

0-150 PSI pressure sensor **X05SNP13441**