AiM pressure sensor 0-50 PSI absolute

AiM 0-5bar absolute pressure sensor is suitable for manifold air pressure reading (MAP), being able to read depressions up to -14.5 PSI in relation with atmospheric pressure, additionally to absolute pressures up to 35.5 PSI. The sensor **part number** is:

- 0-50 PSI absolute 1/8 NPT  **X05PSA00050P18AK**

**Technical characteristics**

- **Supply**  
  8-16 V
- **Accuracy**  
  < +/- 0.5% FS (CLNH – combined non-linearity and hysteresis)
- **Characterisation**  
  500 mV/ -14.5 PSI  
  4500 mV/ 35.5 PSI
- **Consumption**  
  < 10 mA
- **Temperature working range**  
  from -20°C to 135°C
- **Sealing**  
  IP66
- **Housing**  
  316 stainless steel
- **Weight**  
  30 g
- **Cable length**  
  400 mm
- **Thread**  
  1/8 NPT
Drawings and pinouts

Binder connector – Sensor side

Binder connector – Harness side

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
<th>Cable color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Analog signal</td>
<td>White</td>
</tr>
<tr>
<td>2</td>
<td>GND</td>
<td>Black</td>
</tr>
<tr>
<td>3</td>
<td>+Vb</td>
<td>Red</td>
</tr>
<tr>
<td>4</td>
<td>Not connected</td>
<td></td>
</tr>
</tbody>
</table>
Extension cables

For this sensor connector, standard length extension cables are available, whose part number changes according to their length and to the product the sensor is to be connected to.

Extension cable for connection to:
- MXG/MXG 1.2/MXG 1.2 Strada
- MXS/MXS 1.2/MXS Strada/MXS 1.2 Strada
- MXP/MXP Strada
- MXL2
- MXm
- EVO5
- MXL Strada/Pista/Pro05

Part numbers:
- V02PCB05B - cable length: 500mm
- V02PCB10B - cable length: 1000mm
- V02PCB15B - cable length: 1500mm
- V02PCB20B - cable length: 2000mm
- V02PCB25B - cable length: 2500mm
- V02PCB30B - cable length: 3000mm

Extension cable for connection to:
- Channel Expansion
- EVO4
- EVO4S

Part numbers:
- V02PCB05BTXG - cable length: 500mm
- V02PCB10BTXG - cable length: 1000mm
- V02PCB15BTXG - cable length: 1500mm
- V02PCB20BTXG - cable length: 2000mm
- V02PCB25BTXG - cable length: 2500mm
- V02PCB30BTXG - cable length: 3000mm