AiM pressure sensor 0-100 bar

AiM 0-100 bar pressure sensor is suitable for brake pressure reading, being able to read pressures up to 100 bars.
The sensor is sold with two different threads, whose **part number** is:

- 0-100 bar M10: X05PSA00100B10K
- 0-100 bar 3/8 24: X05PSA00100B38K

### Technical characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
<td>8-16 V</td>
</tr>
<tr>
<td>Accuracy</td>
<td>&lt; +/- 0.5% FS (CLNH – combined non-linearity and hysteresis)</td>
</tr>
<tr>
<td>Characterisation</td>
<td>500 mV/ 0 bar</td>
</tr>
<tr>
<td>Characterisation</td>
<td>4500 mV/ 100 bar</td>
</tr>
<tr>
<td>Consumption</td>
<td>&lt; 10 mA</td>
</tr>
<tr>
<td>Temperature working range</td>
<td>from -20°C to 135°C</td>
</tr>
<tr>
<td>Sealing</td>
<td>IP66</td>
</tr>
<tr>
<td>Housing</td>
<td>316 stainless steel</td>
</tr>
<tr>
<td>Weight</td>
<td>30 g</td>
</tr>
<tr>
<td>Cable length</td>
<td>400 mm</td>
</tr>
<tr>
<td>Thread</td>
<td>M10 – 3/8 24</td>
</tr>
</tbody>
</table>
Drawings and pinout

**Binder connector – Sensor side**

- **Pin 1**: Analog signal
- **Pin 2**: GND
- **Pin 3**: +Vb
- **Pin 4**: Not connected

**Binder connector – Harness side**

- **Pin 1**: White
- **Pin 2**: Black
- **Pin 3**: Red
- **Pin 4**: Not connected
Extension cables

For this sensor connection, 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