Bourdon tube pressure gauge with electronic pressure switch
Plastic case, ingress protection IP 41
Model PGS06

Applications

- General machine building

Special features

- Non-contact sensor (wear-free)
- Nominal size 40, 50
- Scale ranges 0 ... 1.6 bar to 0 ... 400 bar
- NPN or PNP switching outputs
- Both switch points factory-programmable between 5 % and 95 % of the scale range

Description

Design
EN 837-1

Nominal size in mm
40, 50

Accuracy class
2.5

Scale ranges
0 ... 1.6 to 0 ... 400 bar
or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitation
Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: Full scale value

Permissible temperature
Ambient: -20 ... +60 °C
Medium: +60 °C maximum

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+20 °C): max. ±0.4 %/10 K of the span

Process connection
Cu-alloy,
Lower mount (LM) or centre back mount (CBM)
G 1/4 B (male), 14 mm flats

Pressure element
Cu-alloy, C-type

Movement
Cu-alloy

Dial
Plastic, white, black lettering

Pointer
Plastic, black

Data sheets showing similar products:
switchGAUGE, standard version, cable outlet; model PGS05; see data sheet PV 21.03
switchGAUGE, stainless steel case; model PGS25; see data sheet PV 21.04
Case
Plastic

Window
Plastic, crystal-clear (PC)

Ingress protection
IP 41 per EN 60529 / IEC 529

Electronics

Switching output
- NPN
- PNP
Normally closed (NC) or normally open (NO)
NS 40: 1 switching output
NS 50: 1 or 2 switching outputs selectable

Supply voltage (Us)
DC 12 ... 32 V

Electrical connections
Cable outlet, standard length 2 m

<table>
<thead>
<tr>
<th>Colour</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>red</td>
<td>Us+</td>
</tr>
<tr>
<td>black</td>
<td>GND</td>
</tr>
<tr>
<td>orange</td>
<td>SP1</td>
</tr>
<tr>
<td>brown</td>
<td>SP2</td>
</tr>
</tbody>
</table>

Switching current
Max. 1 A, short-circuit-proof

Electromagnetic compatibility
Per test standards EN 61000-4-6 / EN 61000-4-3

Options

- Other process connection (with adapter, Cu-alloy)
- Other cable length

Dimensions in mm

Standard version

Lower mount (LM)

Centre back mount (CBM)

<table>
<thead>
<tr>
<th>NS</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a</td>
<td>b1</td>
</tr>
<tr>
<td>40</td>
<td>9</td>
<td>34.1</td>
</tr>
<tr>
<td>50</td>
<td>10</td>
<td>34.5</td>
</tr>
</tbody>
</table>

Process connection per EN 837-1 / 7.3

Ordering information
Model / Nominal size / Scale range / Connection size / Connection location / Switch point and function (1 or 2) / Options

© 2010 WIKA Alexander Wiegand SE & Co. KG, all rights reserved.
The specifications given in this document represent the state of engineering at the time of publishing.
We reserve the right to make modifications to the specifications and materials.