



Caution

Before you take the pressure switch into operation, make sure to read these operating instructions thoroughly. In the event of damages due to the nonobservance of these instructions, improper operation or use of the switch for purposes for which it is not intended, the warranty becomes null and void. We shall not be held liable for resultant consequential damages.

The switch is to be installed and removed by technicians only.

The applicable certified national safety regulations for the operation of pressure measuring devices shall be observed. In the installed condition the respective devicespecific requirements on the type of protection must be fulfilled.

Calibration

Note: Only versions that have the number 1 in the fifth place after the point in the product number (692.XXXX1XXXX) can be calibrated.



Factory setting

Pressure 0, output signal 0 or 4 mA or 15 - 25 mV (typically 20 mV) with voltage output.

Maximum pressure = maximum output signal.

Calibration options

Zero point with potentiometer, varnished white (fig. 2)

With pressure 0, the output signal can be adjusted by + 10 % fs. However, with 0 - 10 V versions at a pressure of 10 % fs, the +/- 10 % adjustment has a low limit of 20 mV.

Slope with potentiometer, varnished red (fig. 2), +/- 10 % of the full scale output, can be adjusted with application of appropriate pressure.

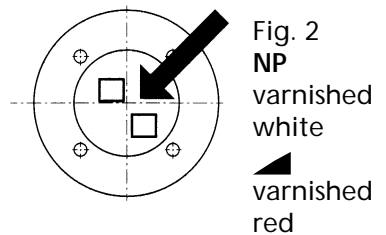
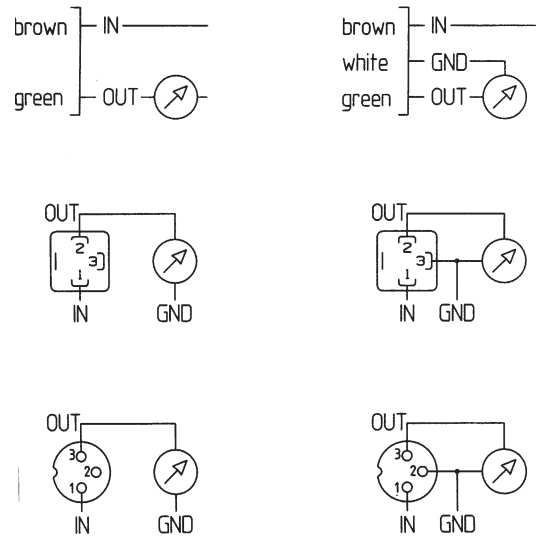
Calibration procedure

- Make electrical connection according to diagrams in fig. 1.
- Unscrew four connector fastening screws, pull off

- connector to render potentiometers accessible.
- With pressure regulator of class 0.6 or better apply lower pressure.
- Adjust zero point output signal with zero point potentiometer (varnished white, fig. 2).
- Apply desired upper pressure and adjust output signal with slope potentiometer (varnished red, fig. 2).
- Repeat this process two or three times until the values are within the tolerance range.
- After the calibration apply varnish to all potentiometers again.

Seal tight connection part.

Fig. 1



Caution!
GND and case have only a capacitive, but not an electrical connection.

Electromagnetic compatibility

Type of interference	Test standard	Effects
Electrostatic discharge	IEC 1000-4-2 / 8 kV air discharge 4 kV contact discharge	no failure (criterion B)
High-frequency electromagnetic radiation (HF)	ENV 50140 / 10 V/m / 80 ... 1 000 MHz	no effect (criterion A)
Conducted HF interference	ENV 50141 / 10 V/m / 0.15 - 80 MHz	no effect (criterion A)
Fast transients (burst)	IEC 801-4 / 2 kV	no failure (criterion B)
Magnetic fields	EN 61000-4-8 / 50 Hz 30 A/m	no effect (criterion A)
Conducted interference	EN 55022 / 0.15 ... 30 MHz	no effect
Radiation from housing	30 ... 1 000 MHz, 10 meters	no effect