

**Construction**

The analogue pressure sensor is screwed into a T connector. The electrical connection is established via the 4 mm safety connector plugs fitted to the connecting lead.

**Function**

A diaphragm inside the pressure sensor is distorted as a result of the measuring pressure applied. This distortion leads to a change in electrical resistance of the elements on the membrane (piezoresistive effect). This resistance change is electronically converted, temperature compensated and amplified.

**Note**

Please observe the polarity of the connected voltage during operation. The terminal plugs have been colour coded.

Terminal plugs		
Operating pressure	Positive terminal:	red
	Negative terminal:	blue
Analogue output signals	Voltage:	black

# 525964

## Pressure sensor

### Technical data

<b>Electrical</b>	
Permissible operating voltage	15 – 30 V DC
Voltage output	0 – 10 V
Load resistance	$\geq 4.7 \text{ k}\Omega$
Measuring range	0 – 100 bar
Critical frequency	1 kHz
Ambient operating temperature	-10 – +70 °C
Temperature effect comp. range (-10 – +80 °C)	$\pm 0.2 \text{ \% FSD}^*/10 \text{ K}$
Linearity	$\pm 0.5 \text{ \% FSD}^*$
Reproducibility	$\pm 0.1 \text{ \% FSD}^*$
Protection class (DIN 40 050)	IP 67
Weight	260 g
Connection	cable with 4 mm safety connector plugs

\* FSD = full-scale deflection