

Press Release

Steel Pressure Sensors – new variants

Korb, Germany, 2011-05-11

Metallux AG in Korb near Stuttgart continuously expands its range of stainless steel pressure sensors.

The conventional piezo-resistive stainless steel monolithic pressure sensors have proved themselves with a high burst pressure at high pressure range. Now, Metallux has introduced a new series of thick film stainless steel pressure sensors with an amplified output signal 0,5...4,5V (ratio metric). Apart from the monolithic stainless steel senses, the SPS 3003 series offers an integrated connection thread. No welding seam is required due to this connection thread. The sensor is manufactured out of one piece. An extreme high burst pressure is therefore assured. These sensors are particularly suited for a multitude of applications, like air conditioning, hydraulics, automated drives and plant-or equipment construction and engineering.

Stainless steel pressure sensor (thick film) SPS 1000

Diameter: 18 x 6,35 mm
Supply voltage: 3 – 30 V
Output signal: 1,5 – 3,5 mV/V
Pressure range p-nom: 10 – 1000 bar
Burst pressure: 10 X p-nom...3 x p-nom
Pressure type: gauge
Temperature range: -40 – 85°C, optional up to 125°C

Stainless steel pressure sensor (thick film) SPS 1000 Z

Diameter: 18 mm x max. 12 mm
Supply voltage: 5 V
Output signal: 0,5 – 4,5 mV/V (ratio metric)
Pressure range p-nom: 10 – 1000 bar
Burst pressure: 10 X p-nom...3 X p-nom
Pressure type: gauge
Temperature range: -40 – 85°C, optional up to 125°C

Electrical connections for SPS 1000 and SPS 1000 Z: solder pads

Press Release

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Stainless steel pressure sensor (thick film) SPS 3003

Diameter:	SW22, G1/4" total height 24mm
Supply voltage:	3 – 30 V
Output signal:	1,5 – 3,5 mV/V
Pressure range p-nom:	10 – 1000 bar
Burst pressure:	10 X p-nom...3 X p-nom
Pressure type:	gauge
Temperature range:	-40 – 85°C, optional up to 125°C

Stainless steel pressure sensor (thick film) SPS 3003 Z

Diameter:	SW22, G ¼" total height 30 mm
Supply voltage:	5 V
Output signal:	0,5 – 4,5 mV/V (ratio metric)
Pressure range p-nom:	10 – 1000 bar
Burst pressure:	10 X p-nom...3 X p-nom
Pressure type:	gauge
Temperature range:	-40 – 85°C, optional up to 125°C

Electrical connections for SPS 3000 and SPS 3000 Z: solder pads, integrated connection G1/4" (other threads on application), no seal required – high burst pressure with high pressure ranges.

Why stainless steel sensors?

For many applications it would make sense to replace ceramic pressure sensors with stainless steel pressure sensors. A considerable disadvantage of ceramic sensors is their missing ductility as well as their brittleness. At excessive force the membranes could burst and allow the medium to escape. Contrary the stainless steel ones will undergo a deformation. Stainless steel sensors are not fixed with elastomer sealing but through welding technology. This makes them extremely suitable for application in the hydraulic field as well as in air conditioning-cool room technology.

Press Release

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About Metallux:

Metallux AG is a high performance manufacturer of electronic components produced in thick film technology.

The German company boasts a vast variety of services and offers next to their standard program of pressure, linear and rotative as well as membrane sensors, high voltage and brake resistors, also customspecific solutions including customised potentiometers and joysticks.

A strong customer orientation coupled with ideas and solutions makes for satisfied customers. Innovative products, a multitude of granted patents, long standing experience - numerous customers in the automotive industry, electrostatic-, medical- and industrial-electronic industries depend already for 25 years on the Swabian company Metallux, a pioneer in its field.

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