

Press Release – Layher AG, 71737 Kirchberg

Subject: Pressure sensors for hydraulic and pneumatic applications

Field of application: Machine and plant engineering and process technology

Compact, reliable, versatile – made in Germany

Layher AG from Kirchberg has now technically further optimised its portfolio of pressure sensors and electronic pressure switches which can be applied in many application areas.

With six type series (800 to 906) which cover up to eight standard specifications, the Swabian developer is aiming at a wide range of application areas. The components have a robust stainless steel housing and can be used in an ambient temperature range of – 25 °C to + 85 °C. Their service life specification is > 10 million cycles at rate of pressure rise to $\leq 1\text{bar/ms}$ at pnom. Depending on the version, the measurement or monitoring range is 0 to 2.5 bar up to 0 to 250 bar.

Flexible connection options and high safety standard

These pressure sensors either have a ceramic or stainless steel measuring cell based on thick film technology. The latter is designed for a burst pressure up to 750 bar and therefore guarantees a high level of safety even for undefined pressure peaks. The ceramic version can withstand a burst pressure of 450 bar.

The company from Kirchberg has also adapted the electrical connection options to different customer requirements and offers a high level of flexibility. Depending on your preference, you can rely on the interfaces PG9 DIN EN 175301-803-A, M12x1 DIN EN 61076-2-101 A, German DT04-3P or German DT04-2P. This means that the pressure sensors can be connected to all commercially available measuring and control devices as well as evaluation systems.

They are operated with a voltage supply of 10 to 30 VDC. For the versions of type series 800 and 804, there is an output signal of 4 to 20 mA available for users. The different specifications of series 810 and 814 offer an output signal of 0 to 10 V.

Switching versions

If applications that require a switching function are to be realised, the pressure sensors of series 902 (ceramic measuring cell) or 906 (stainless steel measuring cell) can show their strengths. They have a transistor switching output (PNP) and can be used as a NO or NC contact. The switching point as well as the reset point are set at the factory according to customer specifications. These electronic pressure switches are fitted with a LED strip light for the switching state display.

Reliable manufacturing process

In order to guarantee a consistent product quality for the customer according to the high Layher standard, these components are completely manufactured in Germany on highly automated systems. Robot-supported processing and assembly processes constitute the backbone for the process stability required in the production of these pressure sensors and electronic pressure switches.

Further information at: www.layher-ag.de



Fig. 1:
Powerful, robust, reliable and versatile - this describes the new pressure sensors from Layher AG.



Fig 2:
Electronic pressure switches with a LED strip light for the switching state display

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