

Solutions for a variety of applications

Pressure measurement for factory automation



SICK presents a new range of products for pressure measurement technology. High accuracy and robust design are the common features of all the devices.

>> In order to solve the demands made by industrial clients on the sensor technology of their machine or plant in a customer-oriented way and from a single source, SICK is expanding the product range by a series of high-performance pressure transmitters for measuring pressures in liquids and gases.

Pressure measurement technology from SICK is used in machine and plant construction, in machine tools, in hydraulic and pneumatic systems, for pressure control, as well as on pumps and compressors. Whether in the automotive industry, in vehicle manufacturing, in the electronics industry or in the packaging industry, the product portfolio with the innovative PBS pressure switch as well as the PBT and PFT series of pressure transmitters is very well suited not only to cover the most diverse requirements but also to provide the client with the best possible, cost-effective solutions.

Particularly compact and flexible: the PBS pressure switch

The PBS is an efficient and space-saving pressure gauge. The sensor is available with relative pressure measurement ranges from 0 to 1 bar and from 0 to 600 bar, though it is also suitable for absolute and vacuum measuring ranges. The PBS combines several functionalities in one device: pressure transmitter, pressure switch and indicating device. Thus, besides the up to two switching outputs, an analog output – 4 to 20 mA or 0 to 10 V – is available as an optional feature. The intuitive configuration by means of two buttons and a display on the device is oriented on VDMA's (Verband Deutscher Maschinen- und Anlagenbau – German Engineering Federation) Standard 24574-1 and makes operation particularly simple: The menu is easy to understand, incorrect inputs are practically impossible and set-up takes only a few moments.

A special degree of flexibility distinguishes the PBS in terms of the installation situation. Thus, the PBS is available with the common process connections and therefore requires no adapters. The electrical connection of the PBS takes place via M12x1 circular plug-in connectors. The highlight: the display and the

electric output can be twisted both in relation to the process connection and against each other, allowing an undisturbed view of the display and optimum cable routing.

The attractive price-performance ratio in conjunction with the minimized set-up times provides the user with a significant cost benefit.

PBT and PFT: the pressure transmitters for universal and special measurement tasks

Just like the pressure switch, the pressure transmitters from SICK also offer relative, absolute, and vacuum measurement ranges. As a standard transmitter for measuring liquid and gas pressures, the PBT basic series delivers superb price-performance ratio, covering the majority of applications in factory automation. The available measuring ranges for relative pressure are 0 to 2 bar up to 0 to 600 bar. Simple and fast installation, availability of all common process connections, and the compact construction design complete the picture of these uncomplicated and yet highly efficient devices.

Special application fields are covered by the PFT series. Here, the available measuring ranges for relative pressure are 0 to 0.1 bar up to 0 to 600 bar. Additional optional features available, such as higher measuring accuracy, extended temperature range, diaphragm face flush with the front, or the great variety of available process connections make the PFT a real specialist for demanding measuring tasks.

The characteristics that are the same for both pressure transmitters are the industrial standard output signals of 4 to 20 mA or 0 to 10 V as well as connection via M12x1 circular plug-in connectors or angled plug according to DIN 175301-803 A.

The newly presented portfolio of pressure measurement technology from SICK is another step toward becoming a supplier of comprehensive solutions. The benefits for the customer are obvious: Ultimately, only innovative and high-quality products, optimum consultation, and custom-made product offers result in more efficient and cost-effective solutions.

Further product information:
www.mysick.com/produkte