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Autor:	Peter Stabel
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SUCO's new developments for the Pressure Monitoring

SUCO Robert Scheuffele GmbH & Co. KG, one of the world's leading specialists in pressure monitoring, has introduced two completely new product series at the Hanover Fair in April 2015.

SUCO manufactures robust mechanical pressure switches which can be adjusted in a pressure range from 0.1 to 400 bar and reach an overpressure safety up to 600 bar. Several thousand variants of this diaphragm or piston pressure switches are being operated in different applications for almost all gaseous and liquid media.

The new so-called "PLUS"-Series represent mechanical pressure switches size hex 24 with intelligent supplementary functions.

SUCO offers the versions NC (normally closed) or NO (normally open) with integrated connectors like DEUTSCH 2P or 3P, AMP Superseal, Packard MetriPack 280, AMP Junior Timer, M12 x 1 and others. The electric contact will be easily be reached by just putting together the integrated connectors with the counter plug. Don't be worried any longer about inconvenient cable or connection troubles! Thereby these product series are designed according to the protection degrees IP67 (or IP6K9K) depending on the manufacturer. These approved standard pressure switches have been further developed and include now additionally security functions.

Moreover SUCO offers the versions which include diagnostic functions (fail-safe) with short-circuit and cable break detection according to NAMUR. Such versions are of a special interest for safety systems as for example brake systems, hydrostatics steering systems or fire-fighting systems. The "PLUS"-Series pressure switches are also available in a version with varistor that allows limiting the flyback voltage efficiently. Thereby the generated overvoltage protection extends the contact lifecycle. Furthermore, an active reduction of EMI emissions will be reached by switching of the pressure switches.

Temperature-controlled switching, which can be interesting for the filter monitoring, will be the next development step. Due to this function it is easy to avoid the incorrect switch status at low temperatures and hence high viscosity of the medium.

In the future SUCO also can offer a current limitation as for the engine's "soft start" or for extreme



light bulb loads as well as for capacitor loads. Furthermore SUCO offers the display of the switching status due to integrated LED. This may be of a particular interest if control units are installed far away from the machines or systems. Some of those security functions can be combined within one pressure switch.

Due to the above called new developments the customer receives numerous additional security functions integrated in millionfold proven pressure switches for an attractive price.

Beside these new mechanical switches SUCO has also presented at the Hanover Fair a complete new product line of electronic pressure switches and pressure transmitters - called „Performance“. These pressure monitoring elements are based on ceramic sensors in thick film technology. The entire electronics fits into the standard housings of the mechanical pressure switches hex 24 with integrated connector. This enables the automation of the production process and – as a result – an attractive price.

The electronic pressure switches offer this robust technology in the range of 0 to 100 bar. The housings are made of stainless steel and are available with such integrated connectors as DEUTSCH, AMP Superseal, MP 12x1, DIN and wired. The electronic pressure switches are adjusted at factory at a desired switching point. The second version enables the user to adjust the set point by himself by just turning the switching point with the adjusting screw. These electronic switches are available as normally open (NO) or normally closed (NC) versions with the switching output. SUCO will present these products at an excellent price-performance ratio.

The “Performance” transmitters are also available for the pressure range from 0 to 100 bar and are provided with output signal 0 - 10 V or 4 - 20 mA. The technical versions include the above called integrated connectors, the stainless steel housing and the common thread G 1/4 E or NPT ¼. As a standard seal a PU material is provided here, which is particularly well suited for a variety of media. On request, the "Performance" products can also be delivered with the known sealing materials NBR, EPDM or FKM.

From: Peter Stabel (Managing Director)

SUCO – the pressure switch specialist – is completing its product ranges. In 2013 SUCO Robert Scheuffele GmbH & Co. KG celebrated its 75th anniversary and has developed into a worldwide specialist in pressure monitoring. There are two production sites, the headquarter in Bietigheim-Bissingen and the sensor specialist ESI Technology Ltd. in Wrexham, Wales, a full subsidiary of SUCO. The international sales network and appr. 200 employees stand for high product quality and worldwide customer service.

For more information please contact:

SUCO Robert Scheuffele GmbH & Co. KG
Keplerstr. 12-14
74321 Bietigheim-Bissingen
Phone: +49/7142/597-0
Fax: +49/7142/980151
e-Mail:suco@suco.de
www.suco.de