

Spotlight

Sensors



Opto-electronic sensors

Festo has announced that all the sensors in its SOE..-Q50 range offer features such as scaling potentiometers secured against excess rotation, digital scaling, as well as display elements and a switching frequency of up to 2500 Hz. The LEDs for indicating the switching status, operating voltage, contamination or incorrect adjustment are identifiable from every angle. The units measure 50 x 50 x 17 mm.

festo.com

Info Card 304

Temperature data logger

The Omega miniature and submersible temperature data logger can record up to 32,767 measurements, can operate in temperatures from -40° to 80°C and is accurate to ±0.5°C. The 66 mm tall and 18 mm diameter device is encased in stainless steel and is designed for use with most common fluids and gases. Units are reusable, CE compliant and feature real-time operation.

omega.ca

Info Card 301

Inductive prox good to 250°C

TURCK has introduced CQ40 and CQ80 model temperature sensors that operate at up to 250°C and are said to provide the longest sensing range of their type. The devices feature a separate sensing head assembly and electronic amplifier assembly to facilitate installation and maintenance. The sensors are interconnected with M12 eurofast quick-disconnects using Teflon cables encased by an aluminum sleeve.

chartwell.ca

Info Card 302

DIN-rail speed monitors

ifm efector inc. has introduced the DIN-rail mountable, programmable M18 compact speed monitor designed for rotational speed applications up to 18,000 ppm. The unit offers a pulse output for monitoring rpm and a switching output that indicates under-speed and over-speed conditions. The 4-wire dc speed monitor provides a 12 mm non-flush sensing range with a three-LED status display.

ifmefector.com

Info Card 294

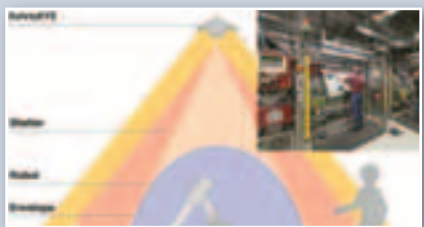


Industrial servo control

MTS Systems Corp., Sensors Division has developed the R-series SSI encoder position sensor for servo control applications. The SSI output of the Temposonics magnetostrictive sensor has an optional data update rate of 250 µs synchronized with an external control clock, regardless of stroke, with as few as 16 µs between measurement data clock cycles. The product features position sensing resolution as low as 1 micron. The resolution is factory- or field-adjustable, from 1 to 100 µm. Sensing accuracy to as low as ±10 µm is possible. A NEMA 4X housing is also available.

mtssensors.com

Info Card 295



3D control and monitoring

Pilz Automation Safety L.P. has introduced SafetyEYE, a camera system for three-dimensional safety monitoring. Developed by Pilz in conjunction with DaimlerChrysler, the system is said to place a customized, 3D protective cocoon around a danger zone with a single system, and has the potential to replace a multitude of 2D sensors.

pilzautomation.com

Info Card 300

Dual display fibre optic amp

The series 67 fibre optic amplifier from Baumer Electric provides two LED displays to indicate both the set point and the actual signal level. A plus or minus key allows the set point to be adjusted and a teach function can also be used to automate the setup process. Once commissioned, the keypad can be locked, making the stored settings safe from accidental changes. Units have a 12-bit analog-to-digital converter and a 50 µs response.

baumerelectric.ca

Info Card 298



Safety light curtains

Omron Scientific Technologies, Inc. has introduced MiniSafe MS4800 series safety light curtains. Available in Advanced, Standard and Basic versions, units have a cascaded configuration to reduce cabinet space requirements and provide guarding in multi-sided and dual-axis guarding applications. Optical scan codes eliminate cross talk, which enables construction of identical machines without staggering the transmitter and receiver position.

sti.com

Info Card 297

10,000 psi rated sensors

ASCO has announced a line of pressure sensors. Units have pressure ratings up to 10,000 psi and the ability to handle applications like steam and refrigeration. The one piece pressure cavity is machined from 17.4 PH stainless steel and is said to offer no source for contamination of the process fluid or the sensor. The design is said to provide the stability, flexibility and electromagnetic interference (EMI) resistance that meet a wide range of process requirements.

ascovalve.ca

Info Card 299



Roller conveyor sensors

Pepperl+Fuchs has introduced SBL series roller conveyor sensors. The design is said to enable the series to mount between conveyor rollers while providing reliable package detection regardless of package color. The series provides adjustable sensing from 40 to 900 mm. Up to 25 sensors can be cascaded and connected to a single power supply. Available outputs include PNP and 2/3 way pneumatic valve. Some models include integrated adjustable timers for on-delay and off-delay functionality.

am.pepperl-fuchs.com

Info Card 296



Magnetic cylinder sensor

SICK, Inc. has announced the MZ20 magnetic cylinder sensor has two programmable switching points. The sensor is said to offer rapid piston movements, two-fold final position detection of pneumatic cylinders and the detection of different gripper positions.

sickusa.com

Info Card 303