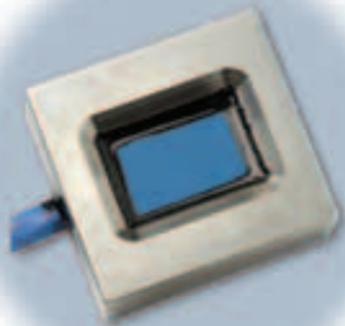


Spotlight Sensors



Solid-state viscosity sensor

BiODE, Inc. has announced the ViSmart, a solid-state viscosity sensor that measures 1.3 x 1.1 x 0.4 in. and is hermetically sealed for complete immersion in fluid stream for process control environments or embedded OEM applications. The 4 oz unit measures viscosity of fluids from 10 to 10,000 cP and rated for temperatures up to 135°C in the standard package, with custom options available.

biode.com

Circle DPN 305



Magnetostrictive positioning

MTS Sensors has announced the R-Series Temposonics line of magnetostrictive position sensors. The series includes diagnostic LEDs and external programming capabilities. Sensing resolutions go as low as 1 micron with an output linearity of less than or equal to ±0.01% and repeatability of less than or equal to ±0.001% FS. Specifications include reverse polarity and over-voltage protection to 36 Vdc.

mtssensors.com

Circle DPN 300



Bi-directional transducers

American Aerospace Controls has released 929 series of bi-directional current transducers. The series consumes a 80 to 270 mW during operation, and provides a response to current waveforms in the range of dc to 350 kHz. The transducers offer accuracy ±1.0% FS from -40° to 85°C. The series features a flame-retardant package that measures 48 x 84 x 48 mm and weighs 6 oz maximum.

a-a-c.com

Circle DPN 302



Rotary torque sensing

RS Technologies has introduced a model able to measure both torque and angle to its line of rotary torque sensors. Rated at 10,000 Nm, series 9001 sensors feature a 1.5 in.² drive, and are usable at speeds up to 1000 rpm. A Bendix PT06A-12-10S(SR) connector is included. The sensor uses a full-bridge bonded strain gage torque transducer with an overload capacity of 50% of the rated load.

rstechltd.com

Circle DPN 306



Laser retroreflectives

The 18 mm threaded barrel World-Beam QS18LD Laser Diffuse and QS18LLP Laser Retroreflective sensors from Banner Engineering Corp. provide sensing with visible Class 1 lasers, tightly collimated sensing beams and extended sensing ranges. The QS18LD senses targets up to 300 mm away and the QS18LLP senses up to 10 m.

bannerengineering.com

Circle DPN 299



Optical distance measuring

The efactor PMD laser sensor from ifm efactor provides non-contact distance measurement with a 10 m sensing range. Contained in a metal housing that measures 42 x 42 mm, the sensor has a 4-digit alphanumeric display that indicates the measured distance within a few mm. The display allows the sensor to be programmed for different setpoints.

ifmefactor.com

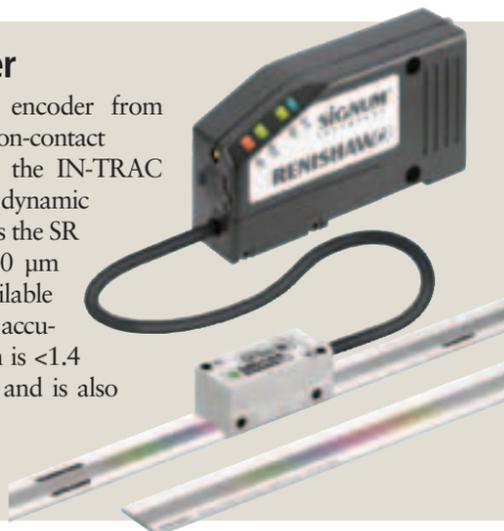
Circle DPN 298

Non-contact linear encoder

The SiGNUM RELM linear scale encoder from Renishaw is said to offer high speed, non-contact performance, with features including the IN-TRAC auto-phase optical reference mark and dynamic signal processing. The system comprises the SR read head, Si interface and RELM 20 µm pitch stabilized Invar spar, which is available in a range of defined lengths. Encoder accuracy is ±1 µm, coefficient of expansion is <math><1.4 \mu\text{m}/\text{m}^\circ\text{C}</math> and resolution is to 20 nm, and is also said to satisfy the most demanding precision motion requirements.

renishaw.com

Circle DPN 307



High temperature proxes

Baumer electric has announced inductive proximity sensors available in M12 and M18 housings that can be used in ambient temperatures as high as 180°C. For non-metal targets, a capacitive sensor with a 30 mm cylindrical housing can be used in temperatures up to 200°C. This sensor features a stainless steel/teflon sensing head and can be used in applications such as level detection of molten glue. All of the units are rated IP67.

baumerelectric.com

Circle DPN 296



Ultrasonic clamp-on transducers for closed pipe systems



The Dynasonics series DTTN ultrasonic transducer set is available in a configuration certified for use in Class 1 Division

1, Groups C & D hazardous environments. Installations can be done on liquid flow in full, closed pipe systems 2 in. and larger. The Intrinsically Safe transducer configuration includes a modified set of DTTN transducer heads and an enclosure that contains two high-frequency barriers. The system has been evaluated and approved by CSA according to the applicable CSA and ANSI/UL standards, and will bear the CSA mark with both the C and US indicators.

dynasonics.com

Circle DPN 304

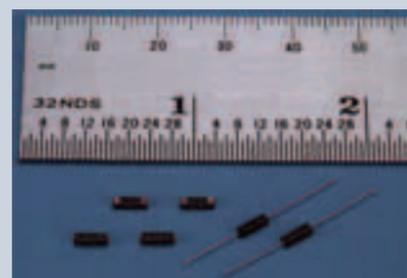


Metal detection line

Turck has introduced the Uprox+ sensor line for metal detection. The proximity sensors are capable of detecting materials such as iron steel, stainless steel, copper, aluminum and brass without a reduction in the rated sensing distance of the sensor. A patented multicoil system replaces the wound coil found in conventional ferrite core inductive sensors, resulting in sensing distances up to 250% higher and the flexibility to incorporate this technology in a variety of unique housing designs.

chartwell.ca

Circle DPN 297



Reed proximity sensors

Hermetic Switch, Inc. has announced the PRX+2450 series of surface mount proximity sensors based on reed switch technology. The series is a Form A, SPST type with an overmolded body measuring at 4.57 mm long, 1.57 mm wide and 1.02 mm high. A variety of magnetic sensitivity ranges is provided including a base product that offers sensitivity from 2 to 15 AT.

hermeticswitch.com

Circle DPN 303