



Powertrain testing

GIF's powertrain test center simulates the vehicle for the functional and durability evaluation of automatic, manual, and continuously variable transmissions. One building features 12 powertrain system test benches. Other equipment includes two all-wheel-drive test benches with four machine units and 10 all-wheel-drive test benches with three machine units. The test bench operation features optimized test procedures and 24-h operation, seven days a week.



For more information, circle 250

Sensor array

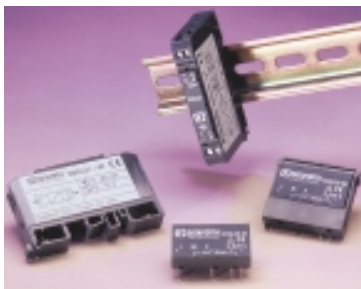
Texas Advanced Optoelectronic Solutions (TAOS), Inc.'s TSL3301 is a 3-V CMOS linear optical sensor array for imaging and position-detection systems. The device is a 300-dpi, 102x1 pixel array that combines sensitive photo detectors with an eight-bit a/d converter and control circuit. The device is suitable for portable, battery-operated applications such as handheld scanners and OCR readers.



For more information, circle 251

Loop-powered isolators

Dataforth Corp.'s DSCL20 and DSCL21 loop-powered isolators provide a simple, low-cost solution for providing protection for analog signals in the range of 0(4) to 20 mA. They are designed to prevent the transfer of interference voltages or currents and for breaking signal-distorting ground loops. Each device provides a single channel of 500 Vrms-transformer isolation for analog signals.



For more information, circle 252

Protective automotive caps

Polymer Molding Inc.'s automotive caps provide protection for air-conditioning assemblies and fuel-system components by safeguarding them from contamination and damage. The devices are made from low-density polyethylene and are EDI and AIAG barcode capable.



For more information, circle 253

Surface-mount LEDs

Lumex Inc.'s surfeels family of light-emitting diodes (LED) and accessories is described in a 60-page catalog. The devices include an SMT numeric character LED display, bare LED chips in various colors, packaged SMT LED devices, low-battery indicators, axial-leaded devices for increased power handling, dome lens configurations, right-angle devices, and light pipes.



For more information, circle 254

Eddy current probe

The ETD3.3 eddy current thickness measurement probe from Fischer Technology, Inc. provides compensation for the curvature influence of a part's surface coating. It measures accurately on surfaces as small as a few millimeters in diameter without calibration. It measures coating thickness on non-ferrous metals including aluminum as well as anodized coatings on aluminum.



For more information, circle 255

EMI kit

Tecknit's EMI test lab sample kit simplifies the selection and specification of EMI-shielding materials. The kit contains the firm's EMI-shielding materials in sufficient quantity



and size to permit testing in products requiring EMI shielding. Materials include wire mesh, conductive elastomers, beryllium copper fingerstock, foil tapes, conductive fabric-over-soft-foam gaskets, oriented wire in silicone, and others.

For more information, circle 256

'Smart' ultrasonic sensors

EDP Co.'s Sonaswitch Mini-S and Mini-A are miniature, "smart" ultrasonic sensors designed for two-switched outputs and analog outputs, respectively. With a diameter of 43



mm (1.7 in), a depth of less than 25 mm (1 in), and a weight of 19 g (0.6 oz), the devices are said to be the lowest-profile, fully contained sensors of their kind.

For more information, circle 257

Video probe

Lenox Instrument Co.'s View-A-Pipe AR video probe features remote focus as well as four-way articulation for maximum performance and control. The device permits close-up visual inspection inside pipe, tubing, castings, cylinders, engines, and equipment chambers

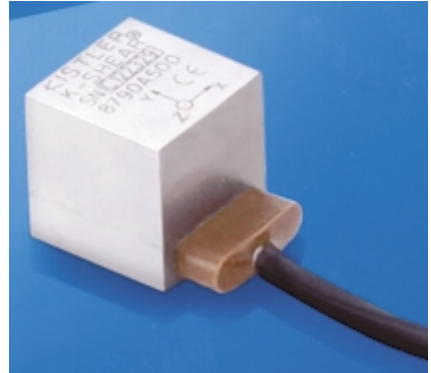


having an inside diameter as small as 12.7 mm (0.5 in). The probe has a 150-mm (5.9-in) bending radius and is available in working lengths up to 10 m (33 ft).

For more information, circle 258

Lightweight triaxial accelerometer

Kistler's Model 8790A500 accelerometer has a mass of 11 g (0.35 oz) and is packaged in a 12.7-mm (0.5-in) stainless steel cube housing. The K-shear design employs quartz sensing material for a wide operating frequency range and low sensitiv-



ity to thermal transients, base strain, and transverse acceleration. The measuring range is (± 500 g).

For more information, circle 259