

BAUMER

World's smallest optical sensor

At only 4mm x 6mm x 45mm, the FHDK 04, the latest addition to the Baumer family of optical sensors, is the smallest optical sensor with background suppression available.

Its directed-beam performance is such that even the smallest objects can be reliably detected at distances up to 50mm. Its detection rate is not affected by dirt on the lens or in the atmosphere, nor is it compromised by the object's colour or surface characteristics.

Several sensors can operate next to one another without any optical interference among them.

The FHDK 04 also supports the IO-Link communication standard, so can be used as part of a sophisticated control system.

T: 01793 783839

E: sales.uk@baumerelectric.com

DATASENSOR

Multi-function light curtain

A multi-function light curtain has been developed by Datasensor to offer multiple configurations of machine safety shutdown, previously only achievable through using combinations of different types of curtain.

The SAFEasy light curtain conforms to IEC 61496-1 and IEC61496-2 and consists of an SE4-RA1 active unit inside a sturdy extruded aluminium housing and an SE4-RDB passive unit with integral reflectors. Alternatively, the passive functions can be provided by a pair of SE4-RSMs with mirrors provided as accessories.

Features such as restart, muting, muting time-out and EDM (electronic detection of movement), are all provided and selectable through switches on the active unit.

Total REPORT: Components

COMPONENTS SUPPLIERS TO THE PROCESSING AND PACKAGING MACHINERY INDUSTRY USED MAY'S TOTAL EXHIBITION TO SHOWCASE A NUMBER OF NEW PRODUCTS.



Elau: New iSH modules cut hardware costs for multi-axis servo installations

The muting function is used to configure the light curtain into an 'L' or 'T' shape to allow selective access. The time out function disables the muting to a predetermined time base.

The detection height is 500mm and the operating range is up to 7.5 metres for the linear version or 3 metres for the 'L' and the 'T' versions.

T: 01869 249800

E: a.yorke@datasensor.co.uk

ELAU

Flexible drive saves space

A combined servomotor and amplifier designed to save space on machines and in their control cabinets, has been introduced by Elau.

These are intended to be controlled by PacDrive motion/logic controllers via a single cable that supplies both

power and control data. Up to 16 of the iSH servo modules can be supplied by the same power supply.

Elau says that the new concept will reduce the complexity of systems and their cabling requirements drastically, resulting in improved reliability and a more modular approach to design and redesign.

T: 01908 628014

E: sales@elau.co.uk

FESTO

Pneumatic and electric actuator

Machine actuation systems can now integrate electrical and pneumatic axes with a single controller following the launch by Festo of the DNCE series of electrical piston-rod cylinders, which are completely compatible with its DNC pneumatic cylinders.

The drive for the DNCE can be Festo's MTR-DCI intelligent servo

motor with built-in amplifier, motion controller and encoder feedback. Alternatively, most third party servo or stepper motors can be used, fitted in line or in parallel via a toothed belt coupling.

There is a choice of low-cost lead screw or high performance ballscrew, with the former giving 1m/s/s acceleration and 0.07mm positional accuracy and the latter achieving 6m/s/s and 0.02mm. Feed velocities can be up to 1000mm/sec and feed force as high as 2000N for some models.

The DNCE is offered in 32mm, 40mm and 63mm frame sizes and a range of standard stroke lengths up to 800mm. Bespoke lengths are available to order.

T: 0800 626422

E: info_gb@festo.com

IFM ELECTRONIC

Solid state flow sensor

The SI5000 is the latest solid-state flow sensor introduced by IFM Electronic and features a housing of stainless steel so that it can be used in the most arduous and/or hygienic applications.

The SI5000 range uses IFM's calorimetric measuring principle, allowing the sensor to operate with no wear at all while providing high sensitivity and repeatability. The measuring range covers 3-300 cm/s for liquids and 200-3,000 cm/s for gases. Temperatures can vary between -25 and 80deg C.

Other features of the earlier units have been retained, for example push-button setting of switch points and multicolour LEDs on the unit to indicate flow and switch points. Electronic locking of the settings and resetting the parameters to the factory setting provide additional safety.

By using process adapters the sensors can be integrated in almost any pipe fitting. The unit is unaffected by the orientation of the

sensing face with respect to the direction of flow, providing increased flexibility of installation.

T: 020 8213 0000

E: marketing_gb@ifm-electronic.com

BELT TECHNOLOGIES EUROPE

Drive belt has strength of steel

The extremely high strength to weight ratio of Belt Technologies' steel drive belts and tapes is said to make them well suited to large loads or where space is restricted. They can be used for both indexing and general conveying duties.

Other features useful to machinery builders and operators include low noise, durability and operational repeatability. Freedom from lubrication and immunity to static build-up make them attractive in clean environments.

In many cases Belt Technologies says it is approached to develop customised design solutions where operating performance or characteristics are required that cannot be achieved by the more traditional chain, plastic and toothed belts.

T: 0191 415 3010

E: sales@bte.co.uk

BURKERT FLUID CONTROL

Single cable cuts control costs

Control system costs can be cut on all fronts with the new 8650 AirLINE-EX valve system from Burkert, which uses Profibus distributed I/O to connect digital pneumatic outputs with both analogue and digital electronic signals from other field devices within a machine control system.

Systems built using the 8650 can be suitable for use in Atex Zone 0 and Zone 1 installation.

The 8650 is built in a modular format and offers numerous options for up to 48 valves of various functionality, size and

connection to be integrated into one system. Remote parameter setting and diagnostics can be carried out via the Profibus link, while hot swapping of the modules allows for easy reconfiguration and maintenance.

T: 01453 731353

E: marketing.uk@burkert.com

ELESA

Conveyor parts and clamps

Elesa has released a new range of standard conveyor components and profile rod clamps for mounting components and sub-assemblies onto machines.

The conveyor range includes feet, connectors, guide rails, brackets and so forth, all manufactured in high performance glass reinforced polymer along with other ferrous components. Together these allow bespoke conveying systems to be quickly and easily constructed.

The clamps feature a multi-splined aluminium profile of 13mm diameter, linked with precision thermoplastic elements including a twin-bolted base with universal orientation capabilities.

Mating arms, clamps and mounting flanges complete the system to create an almost infinitely flexible clamp suitable for a wide range of industrial uses.

T: 01526 322670

E: sales@elsa.co.uk

BOSCH REXROTH

Washdown valve terminal

The CL03 Clean Line pneumatic valve terminal from Bosch Rexroth is designed to withstand high pressure washdown in industries such as food and pharmaceuticals.

Meeting IP69K requirements, the CL03 has a protective cover so that it can be field-mounted close to the machine it is controlling, rather than in a remote control

cabinet. Other details such as spacing and choice of materials have been designed to minimise contamination risks.

The terminal is based on individual sub-bases for each valve, rather than a monobloc construction. Up to 16 sub-bases can be integrated to form a unitary manifold, fitting together quickly because each has its own internal wiring.

T: 01480 223200

E: info@boschrexroth.co.uk

RITTAL

Hygienic enclosure

Rittal has introduced a new range of enclosures for 2007, specifically designed as a defence against deposits and accumulation of dirt on surfaces and in crevices and recesses.

Meeting IP66, the enclosures have a 30deg sloping overhanging roof, internal hinges and a flat gap silicon door seal. The mounting bracket is made from tubular stainless steel and designed to avoid dirt traps. Associated accessories are also designed with dirt control in mind.

A complementary new range meets the even more stringent IP69K standards, for regular rigorous wash downs with a flood of water to maintain the highest levels of hygiene.

These are water tight to protect the internal electrical components, guaranteed to 100 bar pressure and temperatures of 80deg C.

T: 01709 704000

E: information@rittal.co.uk

TSUBAKIMOTO UK

Transmission chain runs longer

Tsubakimoto's new G7 ANSI standard chain uses an innovative bushing design that improves internal lubrication and is said to extend wear life by 100 per cent. It

also has the effect of increasing power capacity by 33 per cent.

The bushings employ a new production technique that enables a series of grooves to be incorporated on the inner surface of a cold forged, extruded bush. This gives a precise cylindrical profile for better surface contact between the pin and bushing, and improved lubricant retention.

The patent design lube groove bush ensures that the chain is optimally lubricated, particularly in real world conditions where inconsistent lubrication is a factor.

The result is a chain that lasts significantly longer in the field. When tested, G7 chain lasted twice as long as Tsubakimoto's previous generation ANSI chain.

T: 01623 688700

E: sales@tsubaki.co.uk

INMOCO

Motion and logic control combine

Machine builders can now replace combinations of proprietary motion controllers and PLCs with a single Ormec SLMC (ServoWire Motion and Logic Controller) from Inmoco.

The SMLC provides cost effective integrated motion solutions from one to 16 axes. Offering a small installation footprint, and providing advanced features such as Pentium 32-bit processors, IEEE 1394b FireWire networking and Ethernet connectivity, the SMLC is a system that can control an entire machine.

It combines Ormec soft motion technology with all five IEC 61131-3 programming languages, PLCopen motion function blocks, and industry standard protocols for I/O and network connectivity, into a powerful, compact control package that reduces wiring complexity, panel space requirements, and programming effort.

T: 01327 307600

E: info@inmoco.co.uk