

# Reliable measuring instruments and sensor solutions for the food and beverage industry



**Baumer**

Passion for Sensors



Pressure gauges and transmitters

Temperature measuring devices

Analytical instruments and level sensors



Expertise and innovation ensure process reliability  
 The Baumer Group is an internationally leading manufacturer of sensors and sensor solu-

tions and employs more than 2,000 people worldwide in 35 locations. In the course of the past decades Baumer has acquired a reputation for itself as a renowned leading brand of top-

quality sensor products for factory and process automation. In the field of sensor solutions for the food and beverage industry, Baumer banks on more than 20 years of expertise. Trusted partnerships experienced with leading manufactures and OEMs provide solid foundations for Baumer's pioneering innovation and ingenuity.

**A versatile industry demands a versatile product portfolio**  
 Baumer products are used in many applications in the food and beverage industry. In process control, a wide variety of instruments is offered for measuring pressure, temperature, conductivity and level. Measuring, positioning, object identification or detection and motion control tasks are precisely mastered by the dependable and uncompromising performance of Baumer sensors, encoders and cameras.

**Info-click** 

For further information go to [www.baumer.com/food-beverage](http://www.baumer.com/food-beverage)



Position sensors

Vision sensors and industrial cameras

Encoders and positioning drives

Standards and regulations



Sanitary Standards



Food and Drug Administration



European Hygienic Engineering & Design Group



Compliant cleaning and disinfection



Permanent submersion in water



High-pressure water jet protection



V4A – stainless steel material



Safety Integrity Level



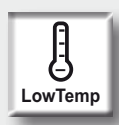
Cleaning in Place



Sterilization in Place



Explosion-proof



Low-temperature applications

**Compliance with regulations and standards**  
Stringent hygiene regulations in the food and beverage industry pose the most demanding challenges to the measuring instruments and sensors used. Baumer sensors are made to fully match applications that are subject to strict constraints and have to fulfil specific standards. The product design complies with the industry-specific regulations and guidelines issued by FDA and EHEDG as well as to special CIP/ SIP process requirements for materials used, surface quality, process reliability and process connections. Programmable measuring instruments and specialized accessories add a further plus to the customer benefit.

**Your trusted partner**  
Baumer ensures safety and quality at all steps of food and beverage processing and packaging. Long-standing expertise, all-encompassing technology competencies, profound consulting and support by qualified experts an a highly appreciated customer service – Baumer is the partner you can rely on for standard and customized sensor solutions in the food and beverage industry.

Solutions



Precision



Safety



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# Processing

In food and beverage processing, the most stringent hygiene requirements must be fulfilled in order to provide the consumer with fresh products that are safe to eat and drink. High-precision sensors and measuring instruments by Baumer ensure consistently high product quality and absolute process reliability. The hygienic designs comply with the relevant regulations and provide a wide selection of process connections. Baumer's long-standing expertise and high quality standards extend product service life, reduce maintenance cycles and enhance efficiency. In addition, Baumer's reliable and precise sensors ensure maximum process safety.

## Temperature measurement in mixing tanks



### CombiTemp flush-mount temperature measuring system in hygienic design

- Modular building block system comprising different temperature sensors and high-precision temperature transmitters
- The modular, hygienic process connections of the CombiConnect series offer maximum flexibility, reduce inventory and save costs
- Flush-mount hygienic process connection for use with paddles and agitators, suitable for highly viscous and heterogeneous media
- Configurable with FlexProgrammer 9701



## High and low level monitoring in buffer tanks



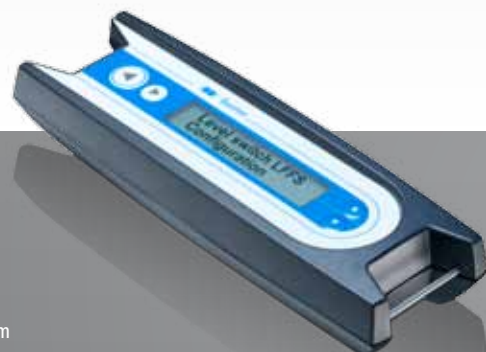
### Level switch LFFS for point level measurement

- Detects the level of liquids, viscous fluids and dry media
- Optional sliding connection can serve as cooling zone for high temperature applications up to +200 °C

- Bright blue LED on top allows for reading of the switching status on a 360° angle

### FlexProgrammer 9701

- Process instruments can be configured quickly and easily
- Straight up- and downloading of product configurations without PC





### Temperature measurement in storage tanks



CombiTemp temperature transmitter in TE1 housing with hygienic process connection 3A/DN38

- Fast response sensor tip for precise and immediate measurement of the process temperature
- Easy exchange and maintenance due to building block concept
- FlexTop temperature transmitter or ceramic measuring insert
- Available with various standard process connections
- Configurable with FlexProgrammer 9701

### Measuring the optimum solution concentration in CIP processes



ISL inductive conductivity sensor with integrated temperature compensation

- Highly suitable for media separation or measuring the agent concentration in CIP units thanks to optimized flow geometry and fast response time
- Due to the outstanding accuracy, it is even suited for poor conductivity media and low flow rates
- Immediate on-site control of conductivity and temperature via the integrated LCD display (of particular help in manually operated cleaning processes)

### High-pressure measurement in the homogenization process



FlexBar HRT pressure transmitter for homogenizers

- Especially made to stand the high pressure and surge in the homogenization process
- Extremely vibration-proof and overpressure-safe
- Measurement of gauge or absolute pressure up to 400 bar
- Pressure reading selectable in bar, psi, mH<sub>2</sub>O, Pascal, kPa or MPa
- Adjustable damping to smooth the output signal for improved reading stability
- Configurable with FlexProgrammer 9701



## Precise pressure measurement during the pasteurization process



### PBMH pressure transmitter with hygienic process connection

- Precise measurement due to the very high accuracy (up to 0.1 % of the full scale), excellent long-term stability and fast response time
- Active temperature drift compensation of the pressure measurement
- Suitable for CIP and SIP processes with a high-temperature version
- Easy recalibration of the zero point
- Programmable measuring range allows for customer-specific modifications

## Precise longitudinal profile detection of curds in compensation tanks and trays



### Ultrasonic sensor UNAR 18 with specific surface coating and stainless steel housing

- The ultrasonic sensor in a stainless steel housing (1.4435) with FDA-compliant surface coating provides high chemical resistance against industry-specific cleaning agents
- Reliable object detection and product gauging, for example of cheese and meat, independent of surface or color
- Available in several configurations with different sonic beam characteristics for the optimum task-matching solution
- Switching and distance measuring sensors



## Maximum output by product gauging prior to cutting



Precise and robust OADR 20 laser sensors in stainless steel housing

- Non-contact thickness sensing for precise volume evaluation of products like cheese or meat
- Ultra-resistant against cleaning agents and with IP 69K protection against high-pressure water jets
- The high resolution up to 5  $\mu\text{m}$  together with the wide sensing range up to 600 mm enable accurate thickness detection from miniature to large products
- Precise color- and surface-independent object scanning even at rapid processing speed by virtue of high measuring frequency



## Dependable detection by photoelectric sensors in hygienic design



SmartReflect™ light barrier FNDH 14 in hygienic design

- Most reliable form of object detection using beam interruption
- Hygienic sensor design, EHEDG certified
- Reflects off stainless steel and can use parts of the machine as reference
- Extended 800 mm sensing range covers conveyor belts of almost any width
- *proTect+*: proven impermeability also at frequent temperature changes
- Extremely resistant against cleaning agents, high-class IP 68/IP 69K protection
- Configuration and retrieval of the status information via IO-Link
- Eliminates complicated integration of a reflector into the hygienic design of the system
- Special stainless steel reflector, EHEDG certified, available as an option



# Storage

Storage applications demand absolute reliability of the sensor deployed since it has to ensure the required safety and stable ambient conditions for perishable goods. Temperature, pressure and level sensing are of special significance in monitoring the storage conditions. For many years Baumer has been providing leading businesses in the food and beverage industry with dependable sensors and measuring instruments for monitoring the storage conditions. The products comply with the prevailing standards and regulations and are available with many different process connections. To make best use of storage capacities, Baumer offers ultra-precise photoelectric sensors that detect the space available or occupied – another tribute to the ever-advancing automation to enhance efficiency.

## Temperature measurement in storage tanks



Battery-operated, digital thermometer CombiTemp with BattTemp display

- Self-contained instrument – no external power source required
- Long-life battery (standard AA) with battery status indicator
- Ultra-precise
- Polycarbonate-encapsulated display for protection against moisture
- Minimum and maximum temperature measurement
- Display to indicate rising and falling temperature
- Measuring range configurable from -200 to +850 °C



## Temperature measurement in buffer tanks



Pt100 temperature transmitter TE2

- Compact stainless steel housing with M12 connector output
- Fast response sensor tips ensure dependable and precise measuring results
- Available with integrated, configurable temperature transmitter with 4 to 20 mA output
- Configurable with FlexProgrammer 9701



## Hydrostatic tank level measurement



FlexBar pressure transmitter with hygienic process connections CombiConnect

- Easy signal linearization in round bodied containers for volume calculations
- Excellent long-term stability for reliable measuring results
- Available with a 4 to 20 mA signal output, HART or Profibus PA interface
- Optional display for convenient on-site control of the current tank level
- Configurable with FlexProgrammer 9701





### Pressure measurement in tank trucks



#### Hygienic pressure transmitter with flush-mount membrane

- Robust and reliable to withstand aggressive, corrosive, highly viscous and very hot or cold media
- FDA-compliant materials and filling liquids

- The surface of all media-wetted parts complies with the relevant standards and regulations of the food and beverage industry
- Resistant against CIP and SIP agents



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### Quick and dependable monitoring of storage space



#### Precise and color-independent distance measurement up to 4 m with OADM 250 Laser sensor

- Reliable verification of available storage space, independent of the stored objects' color and surface
- Improved process reliability thanks to the integrated alarm output giving a pre-warning of soiling
- Robust metal housing with IP 67 protection for rough industrial conditions
- Easily configurable measuring range either via teach-in button or supply cable using an easy teach-in process
- High repeat accuracy of 10 ms for quick detection of occupied storage space



# Filling and bottling

The filling and bottling process places demanding requirements in many respects. Systems and components must be easy to clean and withstand aggressive agents. They have to comply with stringent hygiene standards, and furthermore utmost precision at high processing speeds and downtimes limited to a minimum are crucial criteria for efficiency. The Baumer sensors guarantee smooth process flow and match all the requirements to the fullest. The versatile sensors easily master the challenging diversity in shapes of bottles and containers and different materials such as plastic, glass or metal. They provide infeed and flow control of food and beverages and ensure precise object detection and positioning whereas encoders provide dependable motion feedback. The unrivaled, extensive Baumer product portfolio provides the appropriate sensing technique for every application.

## Tank level sensing



### LSP sensor for continuous level sensing

- Ideally suited for sensing into small containers with viscous or sticky fluids like ketchup, honey or fruit juice
- Appropriate for liquids with a conductivity of 50  $\mu\text{S}/\text{cm}$  and more
- Measuring range easily configurable by teach-in facility
- Installation on top of the tank, bottom mounting or through the tank wall (with angled measuring rod)
- Electronics and sensor can be separated from each other when space is limited or for high temperature operation
- Signal output and supply galvanically separated

## Liquid level sensing in storage tanks



### Level sensing with level switch LFSS

- Optional suppression of foam and adhesion at the sensor tip to ensure true level detection
- For process temperatures up to +200 °C (with optional sliding connection as cooling zone)
- Suitable for dry running protection, media separation, minimum/maximum level detection
- Resistant against CIP and SIP agents
- Teach-in facility for manual fine-tuning to delicate adhesive substances
- Bright blue LED on top allows for reading of the switching status on a 360° angle
- Configurable with FlexProgrammer 9701





### Precise control of carousel rotation in the bottling process



#### Absolute encoder GE244 in an absolutely tight stainless steel design

- Precise carousel positioning ensures accurate filling levels and labelling
- The stainless steel housing provides high resistance to aggressive media and cleaning agents
- IP 67 protection against splashing water
- Optional incremental tracks make additional encoders superfluous



### Non-contact level detection through the packaging material



#### Detection from outside the container by aid of Series CFAK capacitive sensor

- Fill level measurement straight through the packaging material – glass, PET, cardboard, etc
- No direct media contact – no contamination
- Appropriate for liquids, solids and media in powder form
- High chemical resistance and IP 67 protection ensure both process safety and availability
- Cylindrical, cubic and flat sensor designs as well as specific high-temperature configurations always provide the optimum installation solution



# Packaging

The packaging process pinpoints the requirements of precise motion feedback and process monitoring: Position acquisition, format alignments or process control with the ever-growing demand to speed things up by minimizing setup times and avoiding production wastage. Baumer solutions improve nearly any packaging and bottling process. In the appropriate configuration, the measuring instruments comply with hygiene standards and also match aseptic packaging applications. Versatile, modular concepts provide the flexibility required to master the big diversity of packaging material, surfaces, shapes and colors. The process is quickly and easily adapted to another product in a reproducible manner, whilst sensors ensure the shortest possible processing times. Whether in primary, secondary or end-of-line packaging - Baumer is always the partner you can rely on.

## Bottle caps of any shape and color safely detected



Small, compact and dependable – the Series 10 sensors

- One housing concept and two sensing technologies for the optimum task-matching solution
- Ultrasonic or photoelectric sensors with background suppression detect dependably a multitude of bottle caps of any shape and color
- Easy and quick configuration of the required switching points by trusted teach-in method
- Several designs with LEDs or laser diodes provide the optimum sensor solution for every application

## Web tension monitoring and measuring of foil diameters



Precise distance measurement on plastic foils by ultrasonic sensors

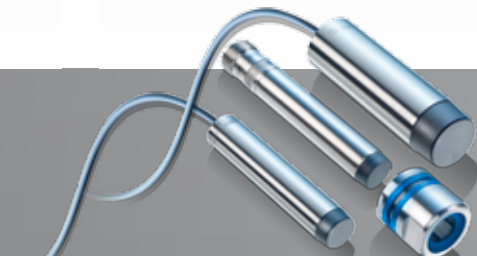
- Dependable distance measurement even on highly transparent plastic foils for precise web tension control and roll diameter scanning
- Utmost flexibility due to wide sensing range from 30 to 2000 mm and ultra-precise repeat accuracy
- Available in several configurations with different sonic beam characteristics for optimised adaptation to the required foil bending radius
- Different housings in rectangular, cylindrical or flat designs always offer the optimum installation option

## Hygienic position feedback at moulding, filling and sealing machines



Inductive sensor series IFBR with mounting concept in hygienic design

- Inductive sensors with mounting concept in hygienic design – EHEDG- and FDA-compliant
- Extended product service life even at regular cleaning cycles and frequent temperature changes thanks to *proTect+*
- No restriction to cleaning agents and disinfectants – Ecolab-approved
- Extremely waterproof (IP 68/IP 69K) and resistant against high-pressure cleaning
- Advanced potential applications due to extended switching distance and temperature range from -40°C to +100°C (short-term)





All kinds of packaging materials dependably detected – from highly transparent to glossy



#### Ultrasonic retro-reflective sensors

- Reliable detection of highly transparent and glossy materials such as foils and vacuum formed sheetings
- Convenient configuration of detection range and other parameters via easy teach-in method
- No specific reflector required – a fix background is sufficient for dependable reflection

#### Photoelectric retro-reflective sensors

- Safe detection of glossy and reflecting packaging independent of quality and color
- Integrated polarization filter ensures dependable recognition of ultra-reflective objects
- Even small objects are precisely identified by laser sensors featuring a specialized one-lens system



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Reliable mark detection in a compact and hygienic design



#### FKDH 14 mark sensor in hygienic design

- Contrast mark sensor with mounting concept in hygienic design – EHEDG- and FDA-compliant
- Quick and easy commissioning by convenient teach-in of the mark
- Fast response time supports dynamic machine cycles
- Safe recognition of multicolor marks on different background colors
- Easy integration into the machine due to the compact design
- Available with several housing configurations



### Quick and error-free spindle positioning



The multicon system for manual, semi or fully automated format alignments

- Reliable and quick aligning operations supported by position displays that show current and target position
- Zero alignment errors thanks to user-oriented menu navigation
- Memory Controller as stand-alone solution without control or PLC
- Optional gateways ease network communication with a fieldbus-capable control
- Quick and easy spindle positioning by aid of mobile power tool
- Individual choice of the automation level deemed to be required

### Precise control of the conveying speed in the flying laser marking process



High-resolution incremental optical encoder BHF *HighRes*

- Ultra-precise speed feedback up to 320'000 ppr
- The shallow installation dept also fits confined places
- Through-hollow shaft allows for any mounting position required
- Top-flexible design
- Less product variety thanks to programmable resolutions

### Motor-driven positioning and alignment



*FlexiDrive* actuating and positioning drives

- Integrated position and speed feedback for less processing work at the control
- No referencing required thanks to absolute position acquisition
- Compact design of motor and electronics for minimized space consumption
- Absolutely reliable and enhanced availability due to robust magnetic position sensing
- Flexible modular building block system of motor, gearbox and interface
- Minimized cabling effort by the compact design with integrated power supply, positioning and bus electronics







## Reliable angle measurement in harsh environments with aggressive media, shock and vibrations



Robust absolute multiturn encoders of the *MAGRES hermetic* series with hermetically sealed housing

- Suitable for high-pressure cleaning even with hot liquids, protection classes IP 68 and IP 69K
- Unrivalled robustness, reliability and longevity due to the patented magnetic sensing principle and the hermetically sealed housing
- Proven impermeability also at frequent temperature changes

- Corrosion-proof by stainless steel housing
- Immune against shock, vibrations, contamination and bedewing
- Reliable operation even at very low temperatures down to -40 °C



## Force monitoring in the thermoforming process of coffee capsules



Force and strain sensors of the DSRT series monitor the closing and sealing force

- Measuring, controlling and monitoring for improved process reliability and smooth production flow
- Protection of machinery and tooling mould
- Minimized temperature drift ensures high reproducibility and flawless product quality
- Dependable monitoring of the closing force also at part load due to low-noise amplifier
- The compact design with integrated electronics eases installation and maintenance

## Flawless heat sealing seams at tubular bag packaging



# Quality control

Customer satisfaction is a vital aspect in long-term success. High-grade quality products supplied in perfect condition help to establish stable customer relations and a positive product image. Demanding quality standards and inspections are necessary to ensure consistent delivery quality and to avoid complaints and return shipments with the entailing costs. Product quality control has to be implemented right in the production process to trace any flaws in time. The Baumer product portfolio offers versatile components to meet the objectives of quality – from a simple sensor for presence check over to 2D vision sensors and camera-based quality inspection.

Inspection of labels, covers and caps on bottles and yogurt cups

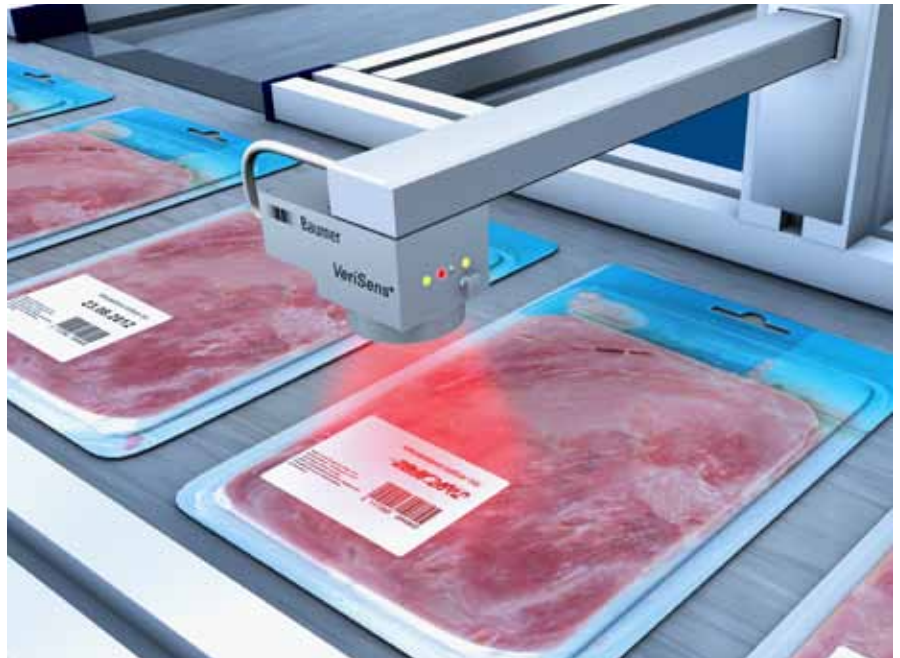


## VeriSens® Vision Sensors for efficient quality control

- Product completion checks (presence of label, caps or covers, "best-before" date)
- Detection of faulty products (shape, tamper evidence tagging, sealing)
- Simultaneous verification of up to 32 properties
- Easy reconfiguration via PLC or web interface
- High throughput rate of max. 50 captured images per second



"Best-before" date verification



## VeriSens® Vision Sensors in stainless steel housings

- Eliminated risk of incorrect "best-before" dates
- Easy date verification upon presence, correctness and readability
- No time-consuming training of new fonts
- The integrated code reader for product identification is capable of reading all common 1D and 2D codes
- Stainless steel housing with IP 69K protection for food and beverage applications





### Detection of empty moulds in biscuit production



#### GigE cameras in innovative protective housings

- Sturdy design for demanding industrial environments like in the food and beverage industry
- EHEDG-compliant design
- IP 67 protection of camera and lens by a water- and dustproof housing easy to clean
- Different tube lengths for flexible adaptation to any application requirements

### Glass and label inspection in the beverage industry



#### Industrial GigE cameras

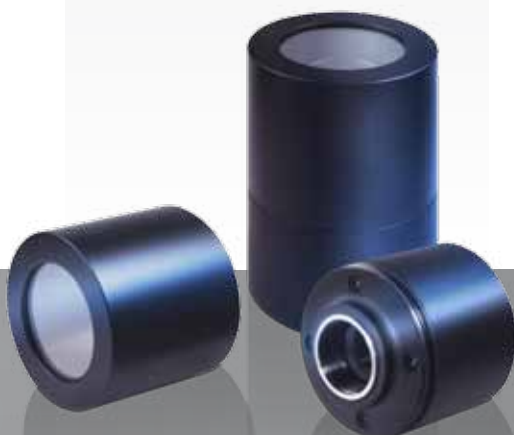
- High resolution assures a quality control that is accurate to every detail
- Brilliant colors for consistent print quality on labels
- Compact design for easy machine integration
- Standard-compliant Gigabit Ethernet interface for long-range transmissions and convenient software implementation
- Flexible configuration for multi-camera systems

### Unerring identification of product inclusions in the heat sealing seam



#### AlphaProx – Ultra-precise inductive distance sensors

- Reliable detection of any product inclusions in the heat sealing seam, for example in flat film bag packaging of spaghetti
- The extremely short response time of mere < 2 ms enables fast detection at high processing speed
- Both linear output signal and high temperature stability ensure top measuring accuracy
- Convenient configuration of the switching threshold by teach-in for immediate good/bad identification
- Available in cylindrical and rectangular designs sized 4 to 30 mm



# Materials handling

When products are being conveyed from one process step to another, speed and absolute accuracy are essential. The application constraints of consistency and impermeability vary according to the place of action. Furthermore, absolute temperature stability is a must. The Baumer portfolio comprises high-performance sensors that match all these demands to the fullest. The drive of the conveyor belts together with position and speed are monitored by encoders. By providing precise motion control and feedback, encoders limit unpredictable machine downtimes and backflow on the belt to a minimum. Every handling process is dependably monitored by innovative Baumer sensor solutions in varied configurations that increase the efficiency of the complete facility.

## Reliable speed monitoring at conveyor belts



### Programmable encoder ITD-2P

- Less inventory thanks to programmable parameters: Pulse number from 1 to 4096 ppr, TTL/HTL output, direction of rotation, duration and position of zero pulse
- Top flexibility by modular cable concept and parameterization in installed condition
- Wide temperature range from -30 °C to +120 °C

### Wide selection in stainless steel housings – incremental encoder series ITD

- Accurate measurements by ultra-precise optical or magnetic sensing
- Capable of intensive cleaning (splashing water) in compliance with protection class IP 67
- Limited space consumption by the miniature housing of merely 24 mm
- Ultra-flexible due to varied options in cable and connector output, TTL/HTL or sine output signals
- Extended product service life by high-quality materials and robust components

### Space-saving encoders without bearing

- Shallow housing depth for limited installation space
- Extended life cycle due to non-contact and wearfree signal sensing technique
- High immunity against shocks as well as vibrations and IP 67 protection ensure maximum process reliability





Reliable high-speed count and backflow recognition of PET and glass bottles



Safe object detection by ultrasonic through-beam sensors

- Reliable identification of highly transparent objects and bottles of any shape
- Dependable bottle counting due to high switching frequency and narrow sonic beam
- Fast response time allows for immediate backflow recognition
- Varied housing designs provide the ideal solution for every installation condition



Dependable position feedback in harsh environments



Photoelectric retro-reflective sensor FPDR 14 in stainless steel housing

- Detects unerringly the presence of most varied objects such as bottles, cans or boxes – no matter whether transparent or metallic
- Robust stainless steel housing and high protection class IP 68/IP 69K
- *proTect+*: proven impermeability even at frequent temperature changes
- No restriction to cleaning agents and disinfectants – Ecolab-approved
- Specific reflector for applications under rough ambient conditions



Stainless steel inductive sensor Series IFRR – absolute impermeability

- Robust stainless steel design and high protection standard IP 68/IP 69K
- *proTect+*: proven impermeability even at frequent temperature changes
- No restriction to detergent agents and disinfectants – Ecolab-approved
- The wide temperature range from -40 °C to short-term +100 °C opens up various application fields, from conveying deep-frozen products up to CIP processes
- Available in configurations for demanding hygienic applications and in a full-metal housing



# The all-encompassing Baumer product portfolio

Baumer presents an unrivaled extensive portfolio of standard products based on different sophisticated sensor technologies. In close collaboration with its customers the company quickly and dependably implements customized solutions to make the most of the common market advantage. As a leading brand Baumer is setting new benchmarks and invests in technological advances. Active on the markets worldwide, Baumer is always close to you and provides superior service and quality standards together with a high product availability.

## Sensor Solutions

Whether for object or position detection, measuring, a miniaturized or exceptionally robust design – Baumer has the right sensor for every application. Different sensor functions in standard housings ease assembly for the user and limit the setup time to a minimum. Baumer provides an extensive selection from inductive to vision sensors and offers support and consultation all from one source.

- Photoelectric sensors
- Inductive sensors
- Capacitive sensors
- Ultrasonic sensors
- Magnetic sensors
- Vision sensors
- Precision switches My-Com

## Motion Control

When the need is to regulate, control and monitor rotary or linear moving processes – to acquire angle positions, turning direction and number of revolutions of motors and spindles – Baumer is one of the leading manufacturers. Whether a miniature rotary encoder, a high resolution encoder or one in a heavy duty housing, whether counter or spindle positioning systems, Baumer can provide the appropriate product.

- Encoders
- Resolvers
- Speed switches
- Counters
- Tachometers
- Process displays
- Spindle positioning systems
- Actuators and positioning drives
- Angle measuring systems
- Acceleration sensors
- Inclination sensors

## Vision Technologies

Identifying, inspecting, measuring, recording – automated image processing is of vital importance in industrial production. Baumer as a pioneer and leading manufacturer in industrial image processing offers high-performance cameras, network components and complete systems for quality control and vision applications.

- Industrial cameras
- Network components
- Vision sensors
- Smart vision sensors
- OEM custom Design
- Quality and inspection systems





### Process Instrumentation

Baumer sensors and measuring instruments for process technology are exceptionally precise and sturdy, matching application needs to the fullest. Particularly in extreme environmental conditions, they must deliver exact measurements. Process automation places extreme demands on accuracy and reliability. Good product quality extends service life, reduces maintenance cycles, adds to process reliability and increases efficiency.

- Pressure sensors
- Temperature sensors
- Level sensors
- Instruments for process analysis
- Force and strain sensors

### Gluing Systems

The gluing systems sector is specialized in fully integrated automated package solutions for gluing and quality control. Baumer systems are deployed in various industries such as printing, packaging or wood processing.

- Cold glue application guns
- Cold glue delivery units
- Hot-melt melters
- Hot-melt application guns
- Glue pattern controllers
- Quality assurance sensors
- Quality assurance systems

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### Customized solutions

Customer requirements are often so specific that standard components available on the market are either stretched to the limit or do not provide an optimal solution costwise or in performance. Customized OEM products – whether simple modifications of standard products or sophisticated special developments of complex multi-sensor systems – are a particular core competence of Baumer.

The individual task-matching solutions developed by Baumer have often provided customers with a competitive advantage.

Just talk to us about what you need!



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