Food and Beverage Solutions

Identification of chocolate moulds

- The RFID system BL ident® reliably detects even metal moulds embedded in the chocolate filling to prevent fraud and thus reduce the risk of food safety breaches.

Efficient hazardous guarding

- A highly sensitive safety guard that can be integrated into the chocolate moulding machine ensures high system reliability.

Level monitoring of ground coffee

- The inductive uprox®+ WD sensors reliably detect pipe elbows at pipe manifolds and thus ensure high system availability.

Detecting pipe elbows

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Dough thickness control in rolling machines

- The contactless inductive encoder QR24 reliably detects the speed of the dough conveyer to ensure consistent quality.

Detecting can feeding gaps

- The inductive sensor Q130WD monitors the gapless-feeding of food cans on the conveyor line and thus prevents production errors.

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Collect Precisely

- Inductive uprox®+ and wash-down sensors
  - Largest switching distances and factor 1 for all metals
  - Extended temperature range, protection class IP68/69K
  - Food-safe chemically resistant materials, Ecolab certified versions

- Capacitive sensors
  - High-tension and resistance to chemicals
  - Flexible use as PROFINET, EtherCAT, Modbus TCP

- Magnetic field sensors
  - Detect the piston position on pneumatic cylinders reliably

- Ultrasonic sensors
  - Analog level control with hygiene-compliant stainless steel

- Pressure, temperature, flow sensors
  - Different designs and settings

Connect Reliably

- Linear position and angle sensors
  - Available in different sizes, max. 7,500 mm
  - Easy handling and mounting
  - Protection class IP69K

- Modular I/O system BoX
  - Gateway for many different fields and Ethernet
  - Machine safety: SIL3, performance level e
  - Ecolab certified version
  - 20 modules available

- Modular I/O system BoP
  - Gateway for many different fields and Ethernet
  - Machine safety: SIL3, performance level e
  - Ecolab certified version
  - 20 modules available

- Input/output modules available as: digital, analog, temperature, Modbus TCP, IO-Link

Communicate Effectively

- Compact IO modules in PRO, M0K, and P02
  - Dynamic technology for PROFINET and EtherCAT

- Modular I/O system BoX
  - Gateway for many different fields and Ethernet
  - Machine safety: SIL3, performance level e
  - Ecolab certified version
  - 20 modules available

- Modular I/O system BoP
  - Gateway for many different fields and Ethernet
  - Machine safety: SIL3, performance level e
  - Ecolab certified version
  - 20 modules available

- Dynamic I/O technology
  - Efficient safety technology even without safety bus

- Machine safety
  - Secure hosting of the data in different variants such as private or public architectures

- Devices with gateways and I/O modules
  - Multiprotocol technology for PROFINET, EtherCAT, and Modbus TCP

- Compact tower lights
  - Excellent luminosity, good visible even at greater distances
  - Green, yellow, red, blue or white LEDs
  - Versions with and without acoustic alarm (adjustable, adjustable)

- Easy mounted and aligned (e.g. M12 connector)

- Modular I/O system BoP
  - 20 modules available
  - Optical isolation for safety reasons

- Machine vision sensors iVu
  - Compact image processing solution for inspection tasks and code reading
  - Integrated or external display
  - Taught and operated without PC

- Vision sensors
  - Improved tightness and resistance to chemicals
  - Very tight and resistant to chemicals
  - Food-safe materials
  - Ecolab certified versions
  - Resistant to wet temperature shocks (ice water – boiling water)

- Ultra-compact design in multiple variants
  - For harsh environments

- Wireless system
  - Wireless detection of sensor signals
  - Modules to isolate, convert, process and condition installation

- HMI panel
  - Programming of control and visualization functions with CODESYS 3
  - HMIs with and without integrated PLC
  - Brilliant TFT displays with screen diagonals from 4" to 15"