



BUZMAN TECHNOLOGIES

**solutions for the Food &
Beverage industry.**

Focusing on:

- Contamination Control
- Downtime Reduction
- Energy Management
- Managing Hygiene
- Personal Protective Equipment



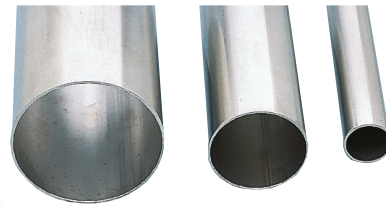
Stainless Steel Enclosed Isolators

- Robust 304 grade Stainless Steel bodied switch disconnecter with brushed finish
- IP65 protection - suitable for indoor or outdoor use
- Padlockable in off position



Hygienic Stainless Steel Tubing

- High quality, polished stainless steel (Grade 316L) tubes designed to meet the stringent requirements of hygienic processes in the food, dairy, brewing, and pharmaceutical industries
- Supplied in 3m lengths with 16g wall thickness



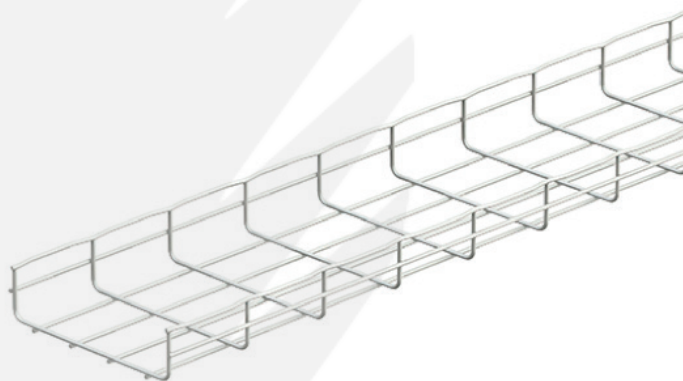
Stainless Steel Terminal Boxes

- IP66 sealed 304 stainless steel enclosures designed for housing DIN rail terminals
- A double lip edge ensures higher strength and ease of installation for the electrician or engineer
- Not supplied with a chassis plate, but does have internal mountings for DIN rail
- Height dimension includes lid



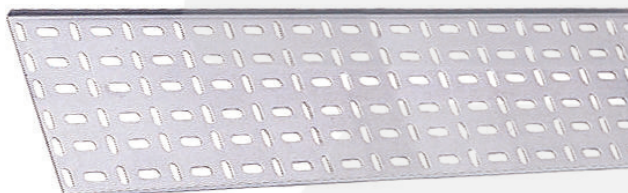
Stainless Cable Basket

- Supplied in lengths of 3m
- Available in Stainless Steel 304 and 316
- Choice of widths and depths available
- Full range of accessories



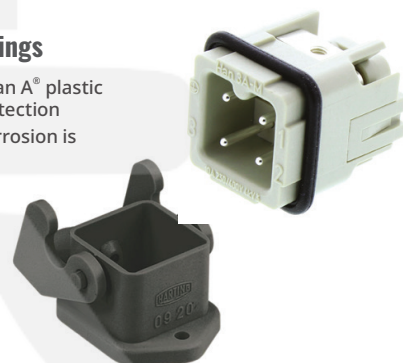
Stainless Cable Tray & Accessories

- 1mm thick cable tray in stainless steel 316
- Depth 12mm
- Full range of accessories are available



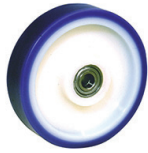
HAN A Plastic Hoods & Housings

- A range of RAL 9005 (jet black) Han A® plastic housed connectors with IP67 protection
- Ideal for environments where corrosion is undesirable or aggressive chemicals are being used
- Complete Harting HAN range available



Hygienic Trolley Wheels

- Nylon (PA6) wheels with cast soft hygienic polyurethane coating ideal for food manufacturing environments
- Low noise and fitted with stainless steel ball bearings
- Choice of diameters and load ratings to suit various applications



Harmony XB5 30mm Antimicrobial Push Buttons & Indicators

- Ideal in tough environments including food and beverage and offers antimicrobial characteristics
- Highly resistant to chemicals (cleaning solvents, alcohol, detergent, cutting oil, milk) with an operating temperature -40°C to 70°C
- Pushbuttons are flush mount and complete with 1NO contacts
- Indicators are flush mount and offer 24V AC/DC operation



Stainless Steel Enclosed E-Stops

- Hygienic stainless steel 316L enclosed emergency stops perfect for wash-down or harsh processing environments
- 40mm head and compliant with EN ISO 13850, IEC 60947-5-1 and 60947-5-5 - twist to reset
- Padlockable versions can be locked in the 'off' or trigger position for maintenance tasks



316L Stainless Float Switches

- Vertical float switches in Stainless Steel 316L material, suitable for use in many aggressive liquids or hygienic applications
- Single float versions listed with SPDT NO contact - dual float options available
- Screw mounted via a 1 1/4" BSP thread, and does not require access to the inside of the tank
- ATEX II 1/2 GD Ex db IIB T6 Ga/ Gb and Ex tb IIIB T85°C Db



Stainless Steel Fixing Kits

- These stainless steel hexagon set screws and nuts are a highly versatile solution to fastening applications
- Able to be adjusted with either a spanner or torque wrench with appropriate socket bits, they present an easy to access fastener head that can be manipulated at multiple angles
- They have excellent resistance to wear and tear and can be safely used in food production applications
- Choice of A2 304 or A4 316 stainless



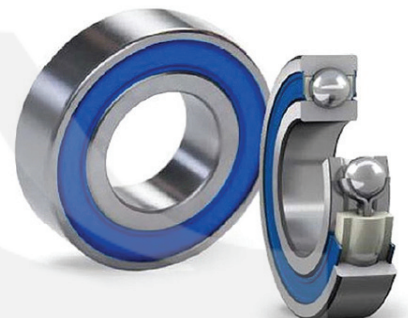
Hygienic Stainless Levelling Feet

- A range of height-adjustable feet made from high-gloss polished AISI 304 stainless steel surface
- Articulated half-thread-less hygienic stem and stainless steel thread-covering sleeve making them easy to clean
- Mounted with top and bottom sleeves/gaskets to prevent dirt intrusion
- Available in a choice of fixings, maximum loads and tilt angles



VP311 Series Plain Deep Groove Ball Bearings

- Offers reliable and durable operation
- It can accommodate both radial and axial loads, making it a versatile choice
- The stainless steel construction provides resistance to corrosion, while blue-coloured seals on both sides protect the bearing from dust and other particles
- Pre-lubricated with food-safe grease, this ball bearing is low-maintenance and has a long service life even in heavy load environments
- It's particularly suited to use in the food and beverage industries



213-Piece Tool Kit

- Wheeled tool cabinet with 6 drawers each housing 4 tool modules
- All the tools are supplied in double colour EVA modules, with each tool having its own unique 3D cut-out slot
- Engineers can do a quick visual check to ensure no tools are left behind contaminating the environment



Impact Resistant Stainless Steel Switches

- Robust stainless steel switches with IK10 impact resistance & IP67
- Excellent, crisp tactile feedback - can be easily operated by gloved hands
- Perfect for equipment or applications where anti-corrosion or impact resistance is required



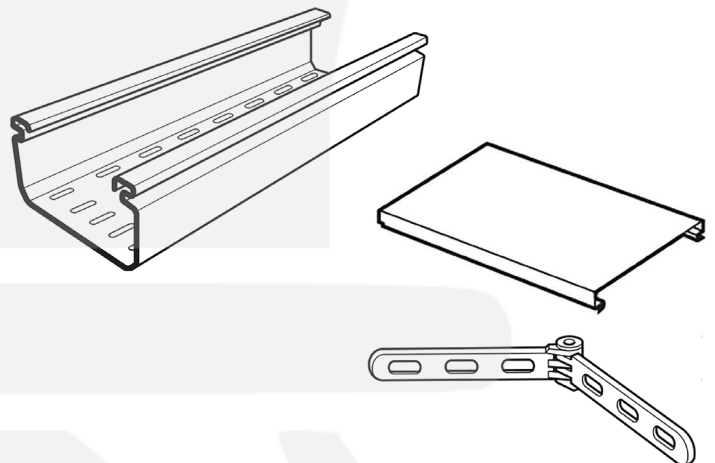
IP69K Stainless Steel Glands

- Self-locking, fast and easy to install
- No edges for matter to get trapped, smooth surface
- Variable clamping ranges
- Ideal for applications in bottling plants and breweries
- Price each, supplied in a pack of 5



Medium Duty PVC Cable Tray

- Can be installed in commercial and industrial environments, indoors or out
- Perforated, with 50mm depth
- Corrosion-free and has excellent fire resistance. It is also resistant to chemical agents, moisture and saline environments
- Suitable for use in chemical or petrochemical industries, paper or food processing
- Cantilever mounting arms also available, Supplied as 3m lengths, in packs of 6 or 8. Price per pack.



316 Stainless Roller Ball Cable Ties

- Self-locking and fast and easy to install
- Can be tightened by hand or with a tool
- Flame retardant with high tensile strength
- Excellent resistance to high temperature, chemicals, weather and abrasion
- Bag of 100



REDUCE DOWNTIME

We know how costly downtime can be. While we can't always predict the future, we do have a range of preventative solutions to help you stay proactive and keep your business running.

You need products designed to meet the needs of the sector, so we offer a wide range from trusted brands like Fluke, FLIR, Ledvance, Rocol, SKF and Tsubaki, plus many more - to fit your needs. Everything you need, including predictive maintenance sensors and devices.

Our product ranges help you:

01

Get insight into the condition of machinery, and help you spot any deterioration that would predict a future breakdown - with hand-held or permanently installed instruments

02

Prevent breakdowns by using parts that are highly tolerant of the environment in which they operate, e.g. IP69K rated parts

03

Prevent breakdowns by using highly durable, reliable parts and equipment whether that be low-/no-maintenance mechanical components, LED lighting, or the right lubrication

Avoiding downtime is your priority – helping you achieve it, is ours.

Fluke 810 Vibration Tester

- The most advanced troubleshooting tool for mechanical maintenance teams who need an answer now
- The unique diagnostic technology helps you quickly identify and prioritise mechanical problems, putting the expertise of a vibration analyst in your hands
- Puts you one step ahead by using a simple step-by-step process to report on machine faults the first time measurements are taken, without prior measurement history
- The combination of diagnoses, severity and repair recommendations help you make informed maintenance decisions and address critical problems first



FLUKE®

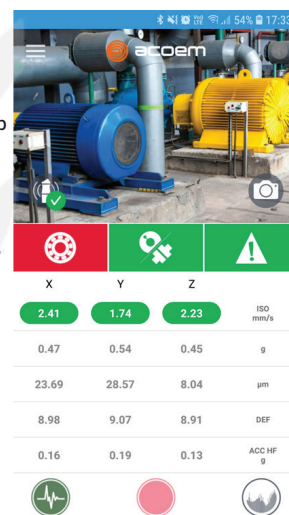
DA10 Data Stations for IIoT

- The DA10 allows you to easily unlock valuable data from legacy equipment and share with the plant floor, enterprise or cloud platforms with ease
- Offers native support for over 300 industrial drivers, out-of-box OPC UA server capability, and simple point-and-click configuration of MQTT connectors
- Features a USB port for configuration and 1x RS232, 1x RS232/RS485 and 1x 10/100 BASE-T(X) Ethernet port



ACOEM Bearing Defender Vibration Meter

- Offers instant advice on the health of your bearings. It makes sure that your machine can keep spinning without risk
- Easy to use and incredibly fast
- Clear red/amber/green indication via an app of: 3D bearing health, 3D misalignment or unbalance, 3D miscellaneous defects
- Physical contact enabled by screwfit contact point or bipolar magnet (both included in pack)
- Only 42mm diameter x 116mm height, and operating temperature range -20°C to 60°C



acoem

400ml Lubricants for Food Industry

- The addition of PTFE to the formulation enhances its lubricating properties
- Foams on application to help lubricant cling to chains and penetrate deep into links
- Provides long lasting lubrication and resists corrosion

Lambda® Lube-Free Chain

- No additional lubrication needed, eliminates contamination and is environmentally friendly
- Reduces maintenance and replacement costs, and decreases overall downtime
- Increases sprocket life
- Sintered bushings with NSF-H1 high-temperature food-grade lubricant for optimal performance in lube-free environments



Innovation in Motion
TSUBAKI



FLIR Ex-Series™ Thermal Imaging Cameras

- Powerful, cost-effective, easy-to-use troubleshooting tools for electrical and mechanical predictive maintenance
- Excellent resolution sensors to help with detail, further aided by MSX to enhance IR images with visual detail for better perspective and interpretation
- Accurately measures temperature from -20°C to 550°C
- Wi-Fi connectivity to smartphones and tablets via the FLIR Tools® Mobile app makes sharing images from any location easier, so you can review and compare images to make critical decisions faster



TELEDYNE FLIR
Everywhere you look™

Fluke 1736 and 1738 Three-Phase Power Loggers

- Make critical power quality and energy decisions in real-time
- Gain more visibility into the data you need to optimise system reliability and savings. These are ideal for conducting energy studies and basic power quality logging, automatically capturing and logging over 500 power quality parameters
- Identify issues that can cause critical machine downtime, measuring all three phases and neutral with included 4 flexible current probes



FLUKE

Ultrasonic Leak Detector

- Detect a variety of leakage events with the instrument's 20kHz to 90kHz frequency range
- Quality headphones help identify the source of the leak
- Parabola accessory directs the ultrasound towards the sensor
- Three filters to remove main noise frequencies in noisy environments
- Detachable extension provides additional reach in hard to reach areas
- 6.35cm LCD display with bargraph



FLUKE

RS730 Thermal Imaging Camera

- Often, developing faults reveal themselves by generating heat
- This thermal camera is great for spotting these problems early, so you can intervene before the problem develops
- Display: 2.8" LCD, 240 x 320 pixels
- IR resolution: 160 x 120 pixels
- Image frequency: 50Hz
- Battery operating time: approx. 4 hours
- Integrated LED light



Fluke ii900 Ultrasonic Leak Imager

- Leaks in compressed air, gas, steam and vacuum systems hurt both production uptime and the operations bottom line
- The Fluke ii900 enables maintenance teams to quickly and accurately locate air, gas and vacuum leaks in compressed air systems; even in noisy environments
- The 7" LCD touchscreen overlays a SoundMap™ on a visual image for quick leak location identification
- The straightforward, intuitive interface allows technicians to isolate the sound frequency of the leak to filter out loud background noise
- The team can inspect the entire plant in a matter of hours, even during peak operations.



FLUKE

SKF QuickCollect Vibration Sensors

- Get access to machine expertise, any time you need it
- SKF QuickCollect combines an easy-to-use sensor with mobile apps which enables you to quickly and easily identify your machine condition and share inspection, process and machine health data
- You can also tap directly into SKF's remote diagnostic centres for expert analysis and advice. Easy to get started straight away: with entry-level setup costs, there's no need to make the case for capital expenditure



SKF

Belt Alignment Tools

- Poorly aligned drive belts or pulleys can significantly contribute to noise, vibration and wear leading to premature bearing failure and costly machine downtime
- This SKF belt-alignment tool lets you check your pulleys, conveyors and belt drives are properly aligned with accuracy and ease
- This laser alignment tool is quick and accurate, delivering precise measurements that will help you reduce friction, energy consumption and noise from unnecessary vibration in your machinery
- Easy to attach using powerful magnets, and uses a laser so you can easily see and adjust both alignment and belt tension



Drive Belt Tension Tester

- Loose or poorly tensioned drive or timing belts can cause premature failures; check tension with a digital acoustic tension tester
- This measures the frequency at which belts vibrate
- Designed even for difficult-to-reach places, ideal for quickly and easily checking the tension of V-belts, ribbed belts and timing belts
- Tension recommendations can be taken from Optibelt specifications and CAP calculations



Fluke 805 Vibration Meter

- Perfect for predictive maintenance activities on moving machinery. Measures overall machine vibrations, bearing vibrations and temperature simultaneously
- Overall vibration levels are compared to preprogrammed alarm levels, and machine condition is provided in four stages
- Bearing condition is assessed automatically, without needing to know the shaft diameter and rotational speed of the bearing, nor the bearing class
- All measured values can be stored and exported to an MS Excel template to create trend plots that help to predict the machine- and bearing condition



Castle GA2002 Pocket Vibration Meter

- Perfect for general machine and bearing vibration monitoring for predictive maintenance
- Offers reliable, repeatable and simple vibration measurements
- Measures acceleration, velocity and displacement in one instrument
- Supplied with accelerometer, cable, spike probe and case



Qualistar Power & Energy Quality Analysers

- Poor power quality can cause disruption to manufacturing machinery. Monitor and identify the sources of issues using a capable analyser
- The CA 833x series measures all the necessary voltage, current and power parameters for full diagnosis of an electrical installation
- Captures and records all the parameters, transients, alarms and wave forms simultaneously
- Easy to handle and precise, these instruments also offer a large number of calculated values and several processing functions
- Comprehensive feature set depending on model,



RS PRO 3101/2 Vibration Meter

- Designed for easy analysis the vibration meter features 2 Piezoelectric accelerometers capturing ranges of 100m/s and 200m/s and capable of multiple measurement options capturing RMS, EQ PEAK, and EQ P-P values
- Featuring an in built manual memory of 99 readings, an auto memory stored on a micro SD card and a USB port for connection to a PC for easy investigations
- Record and retrieve all measurements you need then transfer the data to examine, compare, and report in detail



ENERGY MANAGEMENT

With many food and drink manufacturing operations running virtually continually, the need to manage and potentially reduce energy usage is vital.

Monitoring and understanding energy usage helps identify energy-saving opportunities.

Knowing how much electrical energy is used across the entire site, and also in different parts of your process, will enable energy efficiency measures to be identified, implemented and the impact assessed.

We can help you with solutions for better understanding your usage, including both portable test and measurement equipment for roaming investigations, and permanently installed metering.

Once the high impact areas are recognised, we have the parts to help you take positive action. Whether that is related to AC motor energy consumption, mechanical power transmission, air leaks, costs of operating lighting, poor insulation, to name a few, our range is shaped to help you achieve tangible reductions.



FLIR Si124-LD Ultrasonic Leak Detector

- An easy-to-use, stand-alone system for locating pressurised leaks in compressed air systems
- Find leaks fast, up to 10 times faster than traditional methods
- Locate leaks precisely, even in loud industrial environments, thanks to high-resolution acoustic images and 124 built-in microphones
- Pinpoint leaks from a distance, safely, with this easy to use single handed design
- The PLUS version is even simpler to use, with automatic distance measurement and automatic filter adjustment, and is even more powerful for locating your leaks, with x4 detection sensitivity



EM210 Series Three-phase Energy Meters

- Three-phase energy meter with removable front LCD display unit
- The same unit can be used either as a DIN-rail mounting or a panel mounting energy meter
- Suitable for both active and reactive energy metering for cost allocation but also for main electrical parameter measurement and retransmission (transducer function)



1 Phase LCD Energy Meter with Pulse Output

- A single-module power monitor that will measure and display electrical power quality parameters
- Engineered to cover most applications (Single Phase networks / Built in Pulsed and RS485 Modbus / Import and Export kWh), replacing the need for several different models
- Maximum load 45Aac circuit
- It has a backlit display and 10 different measuring parameters
- With built-in pulsed outputs



Thermal Imaging Cameras

- Spot problems that indicate wasted energy such as electrical faults/unbalance, or loss of heat due to poor insulation
- Wide 42° x 30° field of view enables precision data gathering
- Detects temperatures between -20°C and +500°C
- Quick manual focus adjustment for convenience
- IP54 rating means it's dust-tight and protected from water sprays from every direction
- 640 x 480px display resolution delivers high-clarity data viewing



Bluetooth Low Energy Wireless Logging Sensors

- These sensors measure various values and can wirelessly send the data to smartphones, Efento Cloud or third party platforms to allow you to build a picture of ongoing conditions and demand within a given area
- Choice of devices for temperature, electrical signals, water usage to name but a few
- Long battery life



PEL 5x Power & Energy Loggers

- A simple but comprehensive solution when seeking to monitor consumption in the context of energy savings or to improve a building's energy efficiency
- They record the useful measurements (voltage, current, power values and energy values) and can use wifi to communicate
- The aggregated measurements are recorded over periods from 1 min to 1 hour on an SD or SDHC card. The data can be read directly on a PC



Altivar Machine ATV320 Variable Speed Drives

- Meets simple and advanced application requirements for three phase synchronous and asynchronous motors, from 0.18 to 15kW
- Take control of motors for improved efficiency and potentially reduced energy consumption
- Advanced connectivity with automation architectures such as EtherNet/IP - Modbus TCP, Profinet EtherCAT, Profibus, CANopen and DeviceNet
- Featuring functions such as ATVLogic which bring application expertise and flexibility to the machines
- Coating on the circuit board protects it in harsh conditions
- Fault, error and run LEDs help you keep track of operations



**Schneider
Electric**

ACS355 Machinery Drives

- Machinery drives designed to be quick to install & setup with options up to 18.5kW available
- Features Safe torque-off (STO) as standard and sensorless vector control for both constant & variable torque applications
- Ideal for food & drink, packaging, and material handling applications



ABB

3 Phase Squirrel Cage Induction AC Motors

- A range of robust and efficient induction motors ideal for a wide range of industrial applications
- Efficiency class IE3
- Manufactured with an aluminium design ensuring a lightweight yet highly durable motor with excellent corrosion resistance
- Produced in accordance with IEC 60034 standards
- Featuring two earthing terminals, oil seal fitted ends, bearing C3 shielding and are NDE shaft drilled and tapped for easy mounting of accessories
- Foot mounting, 4 pole versions



3-phase Squirrel Cage Flange Mounted AC Motors

- Efficiency class IE3
- Can rotate in both directions
- A 2-pole motor with an electrical rating of 400V, 415V and 690V supply voltage
- Ambient temperature is 40°C
- Deep groove bearing type
- Frequency rating 50Hz



ABB

Altistart 01N2 Series 3-Phase Soft Starters

- Limits the starting torque and current peaks on starting of machines which do not require a high starting torque
- Designed for applications such as conveyors, pumps, fans, compressors, belt-driven machinery
- They are compact, easy to install and can be mounted side-by-side. Complies with standards IEC/EN 60947-4-2, carries UL, CSA, C-Tick, CCC certifications and CE marking
- Controls two phases of the motor power supply to limit the starting current and for deceleration



**Schneider
Electric**

Optibelt RedPower 3 Drive Belts

- These belts can boost power transmission by 50 per cent compared with conventional belts, and can offer 97 per cent efficiency, opening up the possibility for saving energy
- Maintenance free
- Electrically conductive
- Temperature range -30°C to +100°C
- SPB 16.3mm wide belts shown, SPC 22mm also available



optibelt



Anti-Corrosive LED Battens

- Energy savings of up to 50%, compared to fluorescent fittings
- ENEC approved driver
- Operating temp of -25°C to +50°C
- 2-part fitting allows for quicker installation
- Supplied with tamper-proof, stainless steel clips
- IP65, IK08 rating



Dimmable High Bay LED Lighting

- These stylish high bay lights are ideal for illuminating areas while providing an energy-saving retrofit solution
- Manufactured with a die-cast aluminium body and polycarbonate lens
- 60° beam angle
- Supplied with suspension bracket and 2m of power flex
- IP65 rating for total protection against dust and low-pressure jets of water from any direction



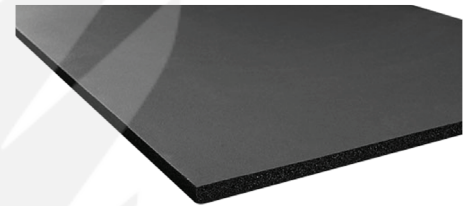
Electric Insect Killer Light Unit

- Can be used free-standing, wall mounted or suspended from the ceiling with the supplied chain
- Should be fitted with shatterproof UVA tubes
- Recommended for areas where food is served, prepared, or eaten
- It is recommended that the tubes are changed every year, as the UV content of the lamps reduces over time
- Tubes available separately



Nitrile Thermal Insulating Sheet

- Ideal to insulate a tank to protect its contents against heat loss or freezing
- Easy to cut down according to the specifications of your application
- Made of a nitrile rubber material that's chemical-resistant, making it a good choice for use in tanks containing oils, fuels and other harsh substances
- High water vapour permeability to prevent the accumulation of condensation
- Other sizes also available



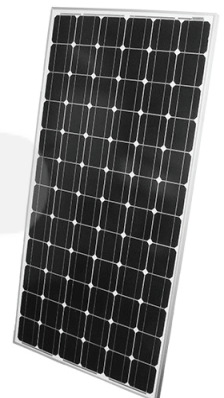
Monolux Thermal Insulating Sheet

- Low shrinkage and high strength: provides effective and stable insulation solutions for industrial applications
- Low thermal conductivity
- Tough and durable
- Resistant to moisture and chemicals
- Excellent machinability to close tolerances



Photovoltaic Solar Panels

- Designed for industrial and professional applications using scratch resistant anodised aluminium with a twin wall frame
- Suitable for an outdoor field installation and are user friendly
- Waterproof module box



Phaesun 

Clear Bottle Sensor

- The E3S-DB sensor provides most reliable detection of all kinds of transparent objects such as PET bottles, glass bottles or transparent trays
- Choice of Smart Teach enabling fast set up or trimmer sensitivity adjustment
- Narrow beam types detecting smallest gaps
- Proven for environments in the Food & Beverage industry with certified ECOLAB/ Diversey compatibility



OMRON

Hygienic Door Safety Switches

- Non-contact switches for interlock hinge, sliding or removable guard doors
- IP67 stainless steel construction ideally suited to high hygiene demands in the food industry
- Long sensing range to avoid false signals due to mis-aligned door
- Hall effect coded switch has LED indication, electronic output and up to 3 can be connected in series
- Reed switches can switch 1mA, 10 Vdc and up to 6 can be connected in series

OMRON



Guided Radar Level Probes

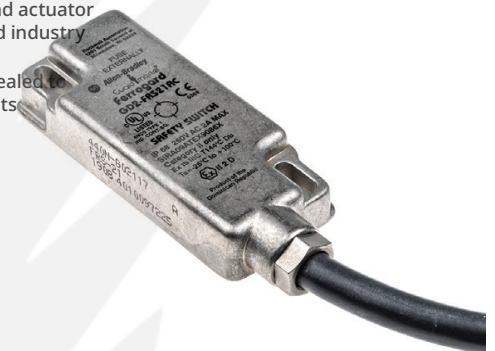
- Guided radar level probes using TDR radar technology and a cuttable level probe to achieve precise level detection which is immune to deposit formation
- Analog outputs include 4 mA-20 mA / 0 V - 10 V, and more, plus digital outputs
- Standard version suitable for process temperatures up to 100°C; hygienic 150°C with IP67 / IP69K protection



SICK

FERROGARD GD2 Stainless Steel Non-contact Switch

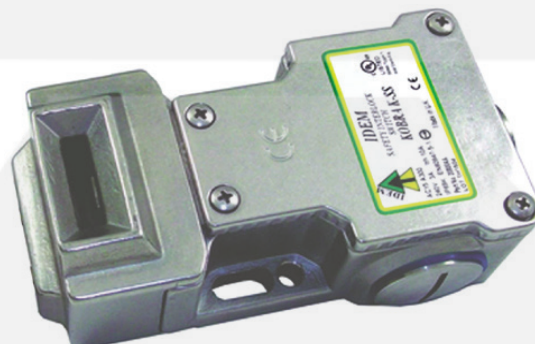
- Magnetically actuated stainless steel non-contact safety interlock switch, developed for heavy duty applications
- Stainless steel head and actuator housing - ideal for food industry applications
- Contacts completely sealed to meet IP68 requirements



Allen-Bradley
GuardMaster

Hygiecam KM-SS Safety Switch

- The Kobra Hygiecam series are tongue operated safety interlock switches that fit to the leading edge of sliding, hinged or lift off machine guards
- Rugged stainless steel 316 mirror finish body perfect for use in Food, Drink, Dairy, Pharmaceutical and other applications where avoiding contamination and withstanding washdowns is vital
- Positively operated contacts to EN60947-5-1 which provide up to Category 4 PLe ISO13849-1 or SIL3 EN62061
- DIN standard body mounting - will fit on 30mm fixing centres of other similar plastic bodied switches



IP66 Stainless Steel Wall Boxes

- AISI 304 stainless steel for food environments
- IP66 rating to provide an excellent degree of protection
- Fully wall mountable
- Includes a zinc-coated steel chassis plate and a lock
- Supplied with fixing kit





CAN WE HELP YOU?

Seen a product solution and want to know more? Contact our expert team for assistance.

Buzman Technologies Limited
P.O Box 33308 Makongo Street, Kinondoni District
Dar es Salaam, TANZANIA
Hp. : (+255) 758 154 212
Telp. : (+255) 657 727 002
Fax : (+255) 758 154 212
Email: info@buzman.co.tz

