



Leelavati Automation Pvt. Ltd.

(ISO 9001:2015 CERTIFIED & MSME REGISTERED COMPANY)



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PRODUCT GUIDE



OUR CLIENTS & PROJECTS



Leelavati Automation Pvt. Ltd. is a leading system integrator and sole distributor of electronic and electrical components targeted for the markets of industrial automation, building automation and energy saving solutions all over India. Founded in 1990 our experience and knowledge are unparalleled. You are assured that product support, service and inventory are only a phone call or a email away.

Three core values of **LEELAVATI AUTOMATION PVT. LTD.:** Integrity, Commitment to Stakeholders and Passion for Excellence.

We are known for our good customer service, in-time delivery schedules, and consistent quality material. We are growing at a rapid pace and now targeting other countries. Our product range reflects the cutting edge of high technology. We are always alert to market conditions and make endeavors to provide latest products

Our core competence in automation spans across six product ranges: Sense, Switch, Control, Field bus, Eco Energy Equipment and Building Automation

Our wide array of products includes Solid state relays, Sensors, Monitoring relays, Energy metering and Management products, Motor controllers and a growing range of renewable energy products and solutions, PLC programming, Parking guidance system and Turnkey solutions.

Our main customers represent different industrial sector like packaging, food & beverages, textile, petrochemicals, tyre, process factories, railways, wind power stations, defense and much more ...

Leelavati Automation Pvt. Ltd. has established, documented, implemented and maintained a quality management system for ensuring that the products and services provided by it conform to specified customer requirements and also for providing opportunities for continuous improvement in the overall quality as per ISO 9001:2015 International Standard requirements.

CUSTOMER NAME	PROJECT NAME	LOCATION
PIDILITE	LEVEL CONTROL SYSTEM	VASAI, MUMBAI
CIPLA	BLISTER FILLING MACHINE	GOA
CIPLA	WAD DETECTION SYSTEM	GOA
INTERTECH PVT LTD	POUCH CUTTING MACHINE	MUMBAI, MAHARASTRA
AUTOPACK INDUSTRIES	CAN PACKAGING SYSTEMS	MUMBAI, MAHARASHTRA
FIABILA	SINGLE SIDED LABELLING DOUBLE SIDED LABELLING	TALOJA, NAVI MUMBAI
INTERLABELS	LABEL DETECTION BOTTLE SENSING	VASAI, THANE
CIPLA	b) FAULTY LABELLED BOTTLE DETECTION AND REJECTION c) RACK AUTOMATION FOR ENERGY SAVING	PANVEL, NEW MUMBAI
VIDEOJET	LASER PRINTING MACHINE AUTOMATION	THANE
RESERVE BANK OF INDIA	AUTOMATED LIGHTING WITH MOTION SENSOR	PUNE
AJE	PALLET COUNTING & DISPLAY SYSTEM (LED DISPLAY)	PANVEL, NEW MUMBAI
MUKAND	CONDUCTIVE LEVEL DETECTION, COUNTER FOR DISTANCE MEASUREMENT OF GROOVE	THANE
MSL	HOT METAL DETECTION	NAGOTHANE
BHARAT PETROLEUM CORPORATION LTD	LABELLING MACHINE UPDATION	MUMBAI
PEPSICO	HUMAN SAFETY USING SAFETY LIGHTS CURTAIN	MAHUL, MUMBAI
BRIDGESTONE	INDUSTRIAL DOOR SYSTEM USING RADAR MOTION SENSOR	PUNE
ESSEL PROPACK	COLGATE NOZZLE CAP DETECTION SYSTEM	GOA
SAFYEAST	YEAST CUTTING SYSTEM	CHIPLUN
SUMER TRINITY TOWER	MOTION BASED LIGHT CONTROL	PRABHADEVI MUMBAI
HAND TOUCHED CHOCOLATES	CHOCOLATE MELTING MACHINE AUTOMATION	DOMBIVALI
DB ENCLAVE	VEHICLE COUNTING SOLUTION	MUMBAI
ECON PACKAGING	PANI PURI VENDING MACHINE AUTOMATION	MUMBAI
GVK MUMBAI INTERNATIONAL AIRPORT	GSM ALERT SYSTEM	MUMBAI



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Our Partners in Automation

XECRO
most reliable sensor technology





CARLO GAVAZZI, ITALY

IO-LINK PRODUCTS

- IO-LINK INDUCTIVE PROXIMITY SENSORS
- IO-LINK CAPACITIVE PROXIMITY SENSORS
- SOLID STATE RELAYS WITH A FIELDBUS INTERFACE
- MULTICHANNEL POWER ANALYZER FOR SINGLE, TWO AND THREE-PHASE SYSTEMS



IO-Link inductive proximity sensors

- Non contact detection of metal objects in general position-sensing and presence-sensing in industrial applications
- Particularly suitable for rotational speed monitoring thanks to the high operating frequency



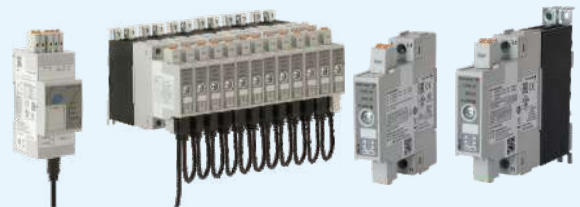
IO-Link capacitive proximity sensors

- Detection not only the level of plastic pellets in plastic molding machines but also the dielectric value of the pellets to avoid false manufacturing.
- Detection of not only the wood pellets in pellets burners but also the density of the wood pellets.



Solid state relays with a fieldbus interface

Any heating application where reliable and precise maintenance of temperature is crucial to the quality of the end product: plastic injection machines, PET blow moulding machines, semiconductor manufacturing and glass tempering machines.



Multichannel power analyzer for single, two and three-phase systems

WM50 with TCD12 current sensors is connected directly on output from the circuit breaker present in switchboards for simultaneous monitoring of multiple single or three-phase loads in low voltage systems. In a data center, WM50 can monitor up to 96 channels and thus ensures that an entire Power Distribution Unit (PDU) is monitored. In other contexts, with critical loads such as hospitals, food storage or industrial production systems, Wm50 guarantees high reliability and extreme measurement precision.



CARLO GAVAZZI, ITALY



SENSORS

- INDUCTIVE SENSORS
- CAPACITIVE SENSORS
- ULTRASONIC SENSORS
- PHOTO ELECTRIC SENSORS



Inductive Sensors

Inductive sensors are primarily used to detect metal parts and objects. These sensors are used extensively in Packaging and Plastics machines, Assembly lines and Conveyor systems, and are available with a wide variety of styles and features.



Ultrasonic Sensors

Ultrasonic sensors are designed for both distance measurement and object detection in tough environments. They are ideally suited to detecting transparent.



Capacitive Sensors

Carlo Gavazzi's patented Triples hield™ capacitive sensors will detect most materials - conductive and nonconductive. This makes them ideal for level detection in plastic and agricultural applications.



Photoelectric Sensors

Photoelectric sensors are used extensively in packaging machinery, automatic doors systems, and many other industrial applications.



CARLO GAVAZZI, ITALY

SENSORS

- CONDUCTIVE LEVEL SENSORS
- FLOAT LEVEL SENSORS
- MAGNETIC SENSORS
- ENVIRONMENTAL SENSORS
- MOTION RADAR SENSORS
- WIND ENERGY SENSORS



Conductive and Optical Level Sensors

Conductive level sensors is well suited to most level control applications. Typical applications are level control and flow detection in the agricultural, chemical, food and beverage water distribution and treatment industries.



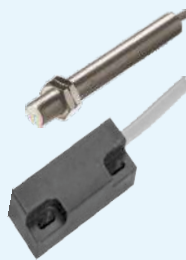
Level sensors and level control relays

for both on/off control and continuous monitoring of levels. Capacitive Probes and Amplifiers for monitoring levels of feeds, grains, and granular materials. Photoelectric Level Switches For monitoring levels of conductive or non-conductive liquids.



Magnetic Sensors

Magnetic Sensors are used for detecting proximity. Special coded magnets and sensors are available for use in safety applications. Magnetic sensors are frequently used in elevators and lifts, gate control, level detection and access control.



Environmental Sensors

Environmental sensors are designed for the measurement of different parameters in order to improve indoor air quality. Typical applications are for offices, hotels, food storage rooms and museums.



Wind Energy Sensors

Wind Vanes and Anemometers are used mainly for measuring relative wind speed and direction. Heater and Dust Sealing features are built-in. Inputs and Outputs are protected against reverse polarity and transients.



Motion and Presence Radar Sensors

Motion and Presence Radar Sensors are typically used for the free opening of all types of automatic doors (sliding, swinging, folding, revolving, high-speed doors, overhead doors, etc.).



CARLO GAVAZZI, ITALY



SWITCHES

- SOLID STATE RELAYS
- MONITORING RELAYS
- INDUSTRIAL RELAYS
- SOFT STARTERS



Solid State Relays

Solid State Relays (SSRs) featuring direct copper bonding technology offers increased life and reliability. SSRs are used extensively in the Plastics, Packaging, Food processing and HVAC industries, in addition to lighting and pump switching.



Industrial Relays

Industrial Relays offers industrial automation and are frequently used in control panels, in HVAC control systems, pump and compressor control, and electronic and consumer products. They are typically used to switch loads such as heaters, lights and motors.



Monitoring Relays

These Monitoring Controls are used for monitoring of phase loss, incorrect phase sequence, phase unbalance, over/under current, over/under load, over/ under frequency and over/under voltage.



Soft Starters

These Soft Starters features internal bypass relays which eliminate the need for large external heatsinks. This minimizes the space requirements in your panel also greatly reduces the heat generated. Applications include conveyor systems, pumps, compressors, industrial dryers, automatic doors, palletizers and fans.



CARLO GAVAZZI, ITALY



CONTROL

- TIMER
- ENERGY MANAGEMENT
- MONITORING RELAYS
- FREQUENCY METER
- HOUR METER
- COUNTER
- DIGITAL PANEL METER
- SAFETY MODULE



Timers

Timers are frequently used in motor control centers packaging machinery, HVAC equipment, control panels and process control.



Hour Meter, Frequency Meter and Counter

These Counters, both electro-mechanical and electronic includes Pulse Counter and Hour Meter. These are fully programmable and the required function can be selected by program.



Energy Management

These Energy Management Systems provides information so that operators can identify consumption trends and take corrective actions. Analysing the power profile, operators can aggregate loads and negotiate favourable terms with the utility company in real time.



Digital Panel Meter

These Digital Panel Meters allow for measuring and display of virtually any process variable including: Temperature, Amperage, Voltage, Pressure, RPM and Resistance.



Monitoring Relays

Monitoring Relays are used in a wide range of applications for protecting motors (elevators, compressor, pumps, air conditioning system). They are also used for monitoring instrumentation signals, detecting broken heater elements and monitoring of lights in building automation systems.



Safety Module

These provide an interface between safety devices & the machine & process those device, monitor for an easy to use safety control solution application includes guard doors, light curtains, monitors & emergency stop applications










EMS SOLUTIONS

Our EMS solution offers monitoring of energy consumption, costs, operational efficiency and the system condition. It provides all the information that an organization needs to manage the power system and reduce energy costs through consumption management, PF monitoring, demand management & harmonics by achieving tariff incentives and avoiding penalties.



STANDARD FEATURES

-  Dashboard.
-  Monitoring Module
-  Analysis Module
-  Alarm Management.
-  Reports
-  User Configuration
-  Diagnostics Module.

ENERGY EFFICIENCY

- Reduce energy cost by Monitoring, Managing & Controlling Energy Demand

DATA ACCESS

- Integrate plants at multiple locations and monitor from a single location

APPLICATIONS OF EMS



Manufacturing Industry
Engineering, Automobile, Auto-Ancillary, Cement, Mills, Pipes, Plastic, PVC, Steel, Textile, and more









Chemical, Process & Food Industry
Refinery, Petrochemicals, Lubricants, Pharmaceuticals, Paints, Bottling, Confectionary, Dairy & Food processing, Sugar, and more



Commercial Buildings & Open Spaces
Banks, Corporate Houses, Educational Institutes, Hospitals, Hotels, Malls, Multiplexes, Recreation & Amusement Parks, Theatres, and more

ADVANCED FEATURES

-  ERP Integration
-  Manual Data Entry
-  Energy Billing Module
-  Predictive Preventive Maintenance alerts
-  SMS and Email Alerts
-  Mobile App

MAXIMUM INCENTIVES

- Maximize incentives provided by the utility companies.

MINIMUM INFRASTRUCTURE

- Reduce maintenance cost by eliminating the need for IT infrastructure like servers and data backup

PARKING SOLUTIONS BY CARLO GAVAZZI, EMX



- VEHICLE DETECTION SYSTEMS
- LOOP DETECTORS
- CARSENSE 303



Loop Detectors

The new Loop Detector for vehicle detection continues the Carlo Gavazzi tradition of providing superior sensing technology and solutions for the door and entrance control market. The pulse mode relay can be configured to activate when the vehicle enters or leaves the loop. The output signal is useful for controlling all kinds of doors, shutters, swing gates, sliding gates etc.



Vehicle Detection Systems

Vehicle detectors sense the presence of vehicles. They provide an output signal to a control unit, such as a gate or door operator, to open or close. When used as a safety device, vehicle detectors prevent a gate or door from closing on a vehicle.

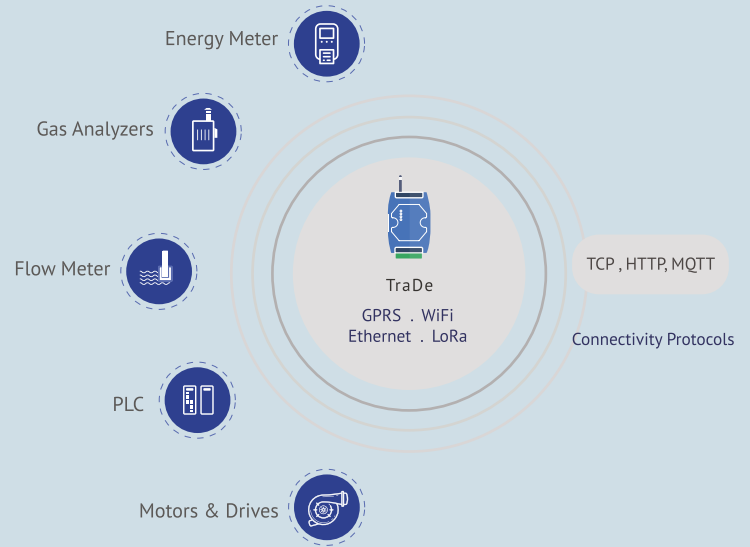
CARSENSE 303

The CS303 is equipped with our new DETECT-ON STOP™ or (DOS®) feature, which allows detection only when a vehicle has come to a complete stop. This exclusive feature is unique to EMX and is a major advantage if you want to ignore cross traffic in tight spaces.



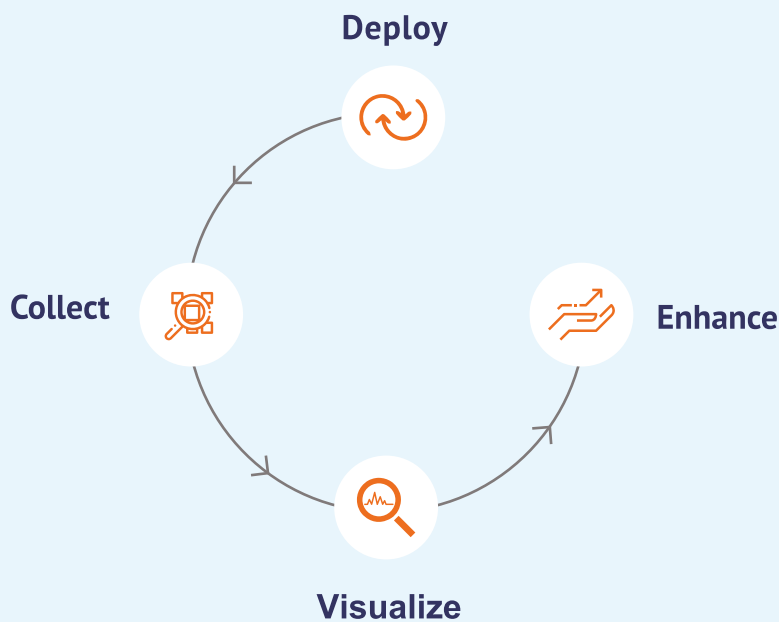
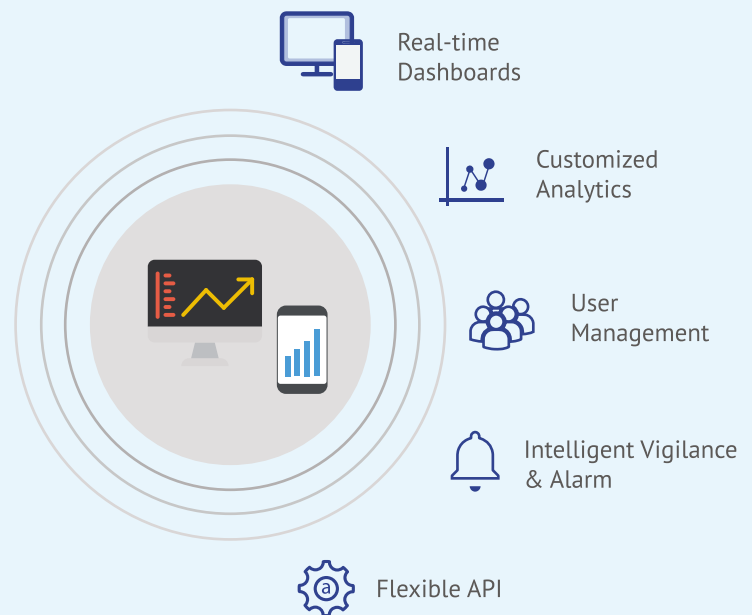
IOT SOLUTIONS

- POLLUTION MONITORING
- OIL AND GAS MONITORING
- DIESEL GENERATOR MONITORING
- REMOTE MONITORING SHAPE
- HOSPITAL ASSETS
- FARM HOUSE SECURITY
- EMPLOYEE TRACKING



IOT SOLUTIONS

We offer new technologies based on Internet of Things & Wireless Sensor Networks and Leading service provider in Internet of Things solutions in the areas of sustainability (energy, water and environment) by offering end-to-end solutions for smart cities. High resolution smart environmental monitoring pollution data through a hardware integrated software platform.



Applications

- Pollution Monitoring
- Energy Monitoring
- Oil and Gas Monitoring,
- Diesel Generator Monitoring
- Remote Monitoring
- Commercial and Industrial Smart
- Energy Metering
- Water Flow and Metering

BEA, USA



- INDUSTRIAL AUTOMATION SOLUTIONS
- PEOPLE COUNTING SOLUTIONS
- PEDESTRIAN SENSING SOLUTIONS
- VEHICLE SENSING SOLUTIONS



Eagle (OPENING SENSOR FOR ALL TYPES OF AUTOMATIC DOORS)

The EAGLE is a microwave sensor which can be mounted on all types of automatic doors, irrespective of the surroundings. Configuration of parameters is flexible and easy via the remote control or push buttons.



Falcon (OPENING SENSOR FOR INDUSTRIAL DOORS)

The FALCON is a unidirectional motion sensor optimizing the performance of automatic doors. It detects every type of target and can filter people.



Lzr (OPENING, AREA SURVEILLANCE AND SAFETY SENSOR FOR INDUSTRIAL DOORS)

One device can carry out 3 functions: opening the door, areas surveillance and safety. More than just a sensor, it improves the comfort and safety of the users and increases the protection of the door.



Ixio-D (OPENING AND SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS)

The three-dimensional infrared curtain protects people from any contact with the doors.



- RAY
- MARVEL
- MARINE
- LIQUITUNE
- MARSHAL
- π ROCK



RAY

Retro Reflective Optic Level Switch

A point level switch used for detection of liquids. Level detection is unaffected by characteristics of the medium such as conductivity, dielectric constant, density, color and vapors.



Liquitune

Vibrating Fork Point Level Switch

'LiquiTune' is a compact point level switch suitable for liquids and slurries. Due to its compact construction it can be used in small vessels and pipelines where available space is at a premium.



Marvel

Universal Capacitive Point Level Switch

A compact universal point level detection switch for solids, liquids and powders for use in small vessels and pipelines where space is constricted.



Marshal

Fuel Level Sensor

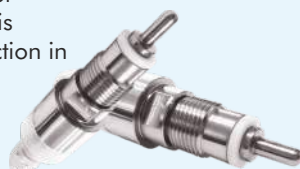
"MARSHAL" is a capacitive level sensor designed for precisely measuring fuel level in moving and stationary applications. "MARSHAL" can be used to measure level in diesel and other electrically non-conductive liquids.



Marine

Conductivity Point Level Switch

It is a compact liquid level switch for conductive liquids. The instrument is ideal for overflow and dry run protection in small vessels and pipelines having constricted space for installation.



π Rock

Vibrating Rod Point Level Switch

When in air the sense rod is set into mechanical vibrations at its resonant frequency by Piezo elements. The Vibrations are damped when the rod gets covered with the service materials. π Rock Electronics effectively excites the Piezo elements and detects the damping accurately to signal an alarm condition.



Industries and Application we cater to:

Water and Waste Water Management
Power Generation
Chemicals and Fertilizers
Packaging and Pouch filling

Breweries
Material Handling
Petrochemicals
Pharmaceuticals

Cosmetics
Edible Oil
Dairy
Cements

Machines Building
Plastics
Foods Processing
Minerals

MICROSONIC, GERMANY

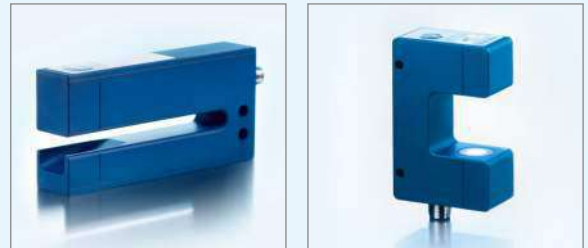
microsonic

- ESF-1 ULTRASONIC LABEL AND SPLICE SENSORS
- BKS ULTRASONIC EDGE SENSORS
- DBK+4 ULTRASONIC DOUBLE-SHEET CONTROL
- MIC+ULTRASONIC SENSORS
- PICO+TF ULTRASONIC FILLING-LEVEL SENSOR



ESF-1 ultrasonic label and splice sensors:

The Esf-1 fork sensor can detect labels reliably even at high label speeds



BKS ultrasonic edge sensors:

The Bks+ edge sensor facilitates the contact-free web edge scanning of foils, paper and other sound impermeable materials.

DBK+4 ultrasonic double-sheet control

This ultrasonic double-sheet control is to identify two or more pieces or sheets inadvertently adhering together.



MIC+ Ultrasonic sensors:

- Digital display with direct measured value output in mm/cm or % IO-Link interface
- for support of the new industry standard
- Numeric configuration of the sensor using digital display permits complete advance configuration of the sensor
- Automatic synchronisation and multiplex operation for simultaneous operation of up to ten Sensors in close quarters



PICO+TF ultrasonic filling-level sensor -

The pico+TF sensors are ideal for the non-contact fill level measurement of chemically aggressive liquids or granules.



OPTEX FA, JAPAN



- DISPLACEMENT SENSOR
- PHOTOELECTRIC SENSOR
- FIBER SENSOR
- LASER SENSOR
- COLOUR VISION SENSOR



Displacement Sensor

Displacement Sensor provide High speed, high precision measurements of height and width. They are used in Automobile, Machine industry, Rubber, Plastic industry, Logistics, Delivery industry.



Laser Sensor

Laser Systems are used where detection of small objects or precise positioning is required. Application are a Logistics, Delivery, Automobile, Surveillance etc.



Photoelectric Sensor

Photoelectric Sensor are used where safe and non-contact detection of the exact position of the object is required. Applications are Food, Pharmacy, Package industry, Semiconductor, FPD, PV industry, Electricity, Electric component industry.



Colour Vision Sensor

Colour Vision Sensor are used for monitoring presence, completeness, position, quality control as well as sorting tasks. Application are Automobile, Machine Industry, Pharmaceuticals, Electric components etc.



Fiber Sensor

Fiber Optic Sensor are ideal for harsh conditions including high vibration, extreme heat, noisy, wet, corrosive or explosive environments. Applications are Railways, Tunnels, Bridges, Industrial ovens.



TEXELCO, ITALY



- SIGNAL TOWER LAMPS & VISUAL ALARM INDICATORS
- FLAT MAGNETIC SENSOR
- SAFETY MAGNETIC SENSORS



Signal Tower Lamps & Visual Alarm Indicators

The regulations give prominence to audible and light units because they allow to:

- Increase workers, goods and environment safety.
- Make easier surveillance, control and maintenance of devices and process.
- Make faster the recognizable of process.



Flat Magnetic Sensor

Safety Sensors simplify the monitoring of mobile guards on operating machines while keeping safety unchanged. They provide on the output signal when the coded magnetic unit that functions as an actuator enters their sensitive area, all without contact and wear-free.



Safety Magnetic Sensors

To ensure an adequate and lasting control of the shelters, designers must confront with the problems arising from: The presence of dust or processing residues, need to ensure the most hygienic food machinery, difficulty to maintain parity in the time members of the group security. Our safety sensors simplify the control of the position of movable guards on operating machines, while maintaining the security: Provide an output signal when it enters their sensitive area the magnetic unit coded, which works as an actuator, and the only one able to operate them (protection against tampering), all without contact and wear. They can be mounted behind non-magnetic materials, maintaining the distance of activation (increased hygiene on the machines and additional protection against the neutralization).



SELET, ITALY



- INDUCTIVE PROXIMITY SWITCHES
- CAPACITIVE PROXIMITY SWITCHES,
- ANALOG PROXIMITY SENSORS
- ENCODERS (ABSOLUTE & INCREMENTAL)
- FORK SENSOR
- RING SENSOR



Inductive Proximity Switches

They are used where the metal object to be detected is within an inch or two of the sensor face. Our sensors can be used in light-duty packaging applications and the punishing environments on automotive welding equipment.



Encoders

They can be used as feedback devices for motor speed control, length measurement, position and input for rate and speed indication and control.



Capacitive Proximity Switches

They are used in many industries, including manufacturing, robotics, semiconductor, etc



Fork Sensor

These metal housing Fork Sensors are particularly suited to the detection of transparent and metal labels.



Analog Proximity Sensors

All purpose photoelectric sensors with universal housing design and 18 mm threaded barrel is an ideal replacement for hundreds of other sensor styles.



Ring Sensor

Ideal for sensing, counting and checking of small metal parts such as: screws, washers, nuts etc. and the control, detection, position, inspection and automation of machine tools & manufacturing systems.



TAKEX, JAPAN



- AC/DC PHOTOELECTRIC SENSOR
- FIBER OPTIC SENSOR
- LONG RANGE SENSOR UPTO 100 METERS
- ANALOG CONTROLLER
- FLAME SENSOR
- ULTRA MINIATURE EMBEDDED AMPLIFIER PHOTO SENSORS



AC/DC Power Supply Photoelectric Sensors

AC/DC Power photo sensors a wide range of applications such as car washes, exposed vehicle detection systems, conveyor detection in unusual environments such as frozen fish.



Analog Controller

Ultrasonic sensor embedded with amplifier and comparator Hybrid type, which can generate analogue output and comparator output at the same time. Application: Automatic assembly



Fiber Optic Sensors

Due to the use of separate fiber optic cables, these sensors can also be used in areas that would be hazardous for a regular sensor.



Flame Sensor

Flame sensor quickly detects ultraviolet rays contained in flames and activates a built in alarm sound plus an external output. Flame detection possible upto 10 metres.



Long Range Photo Electric Sensor upto 200 Meters

Photoelectric beam is designed to meet the highest standards of quality and reliability for photoelectric beam intrusion detection. Applications: Doors & Boom Barrier control.



Ultra Miniature Embedded Amplifier Photo Sensors

Miniaturized photoelectric beam sensor is suitable for use inconspicuously in a wide range of applications like CD/ATM machine, motor-driven shutter, window or alley.



TAKEX, JAPAN

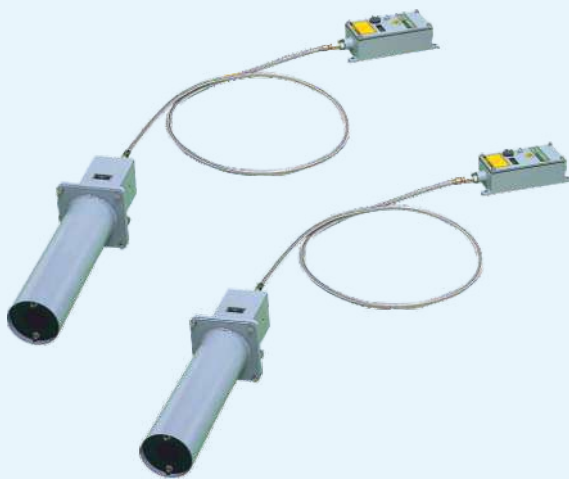


- COLD METAL SENSOR
- HOT METAL SENSOR
- LIGHT CURTAINS



Cold Metal Sensor

The CMD (Cold Metal Detector) is composed of the transmitter and receiver. It is used even if the object temperature is high and under strong external light. Application: Steel/Ceramic Furnace



Hot Metal Sensor

A sensor that can be used under a severe use condition that heat, steam, and dust, etc. disperse like the ironworks and the heavy industry site, etc..



Light Curtains

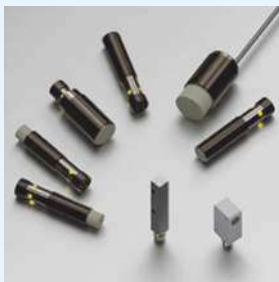
These Light Curtains includes models for lifts and escalators and models for industrial doors. Takex's light curtains with dynamic blanking detect the presence of obstacles along the entire door opening height, thus preventing accidents.



XECRO, GERMANY

XECRO
most reliable sensor technology

- HIGH PERFORMANCE INDUCTIVE SENSORS
- HIGH TEMPERATURE INDUCTIVE SENSORS
- ULTRA METAL FACE INDUCTIVE SENSOR
- HIGH PRESSURE INDUCTIVE SENSORS
- ANALOG OUTPUT INDUCTIVE SENSORS
- RING INDUCTIVE SENSORS



High Performance Inductive Sensor

In some work environments, extremely high sensing distances are required and essential for proper operation. Sensors from the outstanding Performance Series offer the absolute best-in-class sensing distances.



Ultra Metal Face Inductive Sensor

These sensors are constructed with an ultra-thick sensing face, made of stainless steel and have been designed to withstand even the heaviest mechanical impacts.



Analog Output Inductive Sensor

XECRO sensors with Analog – Output, are able to precisely measure distances to metal objects. They are ideal for position adjustment, distance measurement and metal classification / comparable applications.



High Temperature Inductive Sensor

XECRO Inductive High-Temperature Series sensors have been designed to permanently operate under temperatures ranging between -25°C and + 180 °C (- 13°F ... 356 °F).



High Pressure Inductive Sensor

To achieve outstanding pressure durability, XECRO manufactures select High-Pressure sensors with Metal-Face technology which offer excellent peak-pressure immunity and survive even under the harshest environments.



Ring Inductive Sensor

Inductive ring-sensors from XECRO can be used to detect metal objects at high velocity. With a maximum object speed of up to 45 m/s (147 ft/s), it allows the use of objects that are shot with compressed air.

PAN-GLOBE, TAIWAN



- MULTIFUNCTION TIMER
- VOLTMETER AND AMPERE METER
- COUNTERS, MULTIFUNCTION FREQUENCY AND CONTROLLER
- HUMIDITY SENSOR
- INFRARED TEMPERATURE SENSOR
- TEMPERATURE CONTROLLER



Multifunction Timer

With multifunction timer, you can configure the timer as per your application need. Timers are frequently used in motor control centers, packaging machinery, HVAC equipment, control panels and process control.



Multifunction Frequency Counter and Controller

Pan-Globe offers a wide range of counters, Multifunction Frequency and Controllers to be used in different market segments such as packaging, building, lift or industrial applications.



Infrared Temperature Sensor

Ideally suited to high temperature applications for non contact type temperature sensing.



Voltmeters and Ammeters

voltmeter is an instrument that measures the difference in electrical potential between two points in an electric circuit. An analog voltmeter moves a pointer across a scale in proportion to the circuit's voltage; a digital voltmeter provides a numerical display.



Humidity Sensors

Humidity sensors are employed to provide an indication of the moisture levels in the environment.



Temperature Controller

It is used in high temperature applications. Control precision is high, up to $\pm 0.1^\circ\text{C}$. Dual PID control can control the heating and cooling at the same time.

BANNATECH, USA



- PRESSURE SWITCHES & TRANSMITTER
- LEVEL SWITCHES & TRANSMITTER
- TEMPERATURE SWITCHES & SENSOR
- FLOW SWITCHES & METER (THERMAL, TURBINE, PADDLE, PISTON)



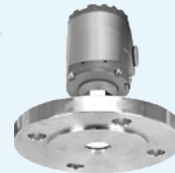
Pressure Switches & Transmitter

A pressure measurement device measures pressure, typically of gases or liquids. Pressure is an expression of the force required to stop a fluid from expanding, and is usually stated in terms of force per unit area. Those devices are used for control and monitoring in thousands of everyday applications. They can also be used to indirectly measure other variables such as fluid/gas flow, speed, water level, and altitude etc..



Level Switches & Transmitter

Level sensors detect the level of substances including liquids, slurries, granular materials. Different level meter / switches are designed for various applications in Banna such as buoyancy level switch, electrical float level meter, hydrostatic pressure liquid level transmitter, Liquid Level/Temperature Switch, Magnet obstructive level sensor, photoelectric liquid level switch and ultrasonic level meter.



Temperature Switches & Sensor

A diverse array of sensors are used to measure temperature by sensing some change in a physical characteristic. With a wide variety of temperature measurement devices, whether you are measuring temperature in a lab or rugged remote location, Banna has the right measurement devices for your application.



Flow Switches & Meter

Flow measurement is the quantification of bulk fluid movement. It can be measured in a variety of ways. Banna offers a wide range of flow measurement products: electromagnetic flow meter, positive displacement flow meter, paddle flow switch, piston flow switch, thermal flow switch(sensor), turbine flow meter and vortex flow meter.



ELKO EP, CZECH REPUBLIC



- MODULAR ELECTRONIC DEVICES
- BUS SYSTEM
- ELKO LIGHTING
- WIRELESS CONTROL
- HOME AUTOMATION



Modular Electronic Devices

ELKO EP offers wide range of electronic devices, which brings new possibilities for control, monitoring or security house, apartment, office or industrial process control: time relays, installation contactors, stair machines, time switches, dimmers, thermostats, power supplies, controls and signaling devices, GSM Gateway, etc.



Elko Lighting

Today, the biggest focus is on LED light sources. Their indisputable advantages - low input power, high efficiency and long life - are foretelling indicators of this unstoppable future trend.



Bus System

The Combination of RF Control wireless solution and the bus intelligent electrical installation offers the variability and flexibility of the wireless solution for existing households wanting to elevate their home use to a modern living standard.



Wireless Controls

Wireless RF system is unique solution of intelligent electro-installation especially for reconstructions of houses, apartments or wiring extensions. RF Control allows wireless control of electrical equipment and appliances, light dimming, control of shutters, blinds, garage doors, driveway gates, swimming pools.



EPV, GERMANY



- OCCUPANCY SENSORS
- DIMMERS
- MOTION SENSORS



Occupancy sensors

Occupancy sensors / presence detectors are a special type of motion sensors. They are specifically designed to pick up small movements in demanding applications such as offices. It automatically turns lights on when a room is occupied and off when a room is vacant. To achieve this, the sensor needs to pick up fine movements without false triggering. Normal motion sensors are not suited for this.



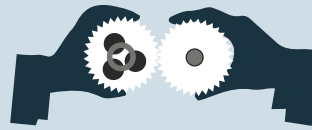
Dimmers

Epv's Dimmtronic family offers the right solution for every dimming applications - whether you have dimming Leds, Halogen lamps, Incandescent lamps, dimmable Cfls, 1-10 v dimmable Fluorescent lamps or any other type of dimmable lighting.

Outdoor motion sensors

This is stylish, highly reliable and very sensitive sensor for many applications. Installation is easy and very flexible to walls, corners and ceilings. An ip55 rating makes the sensor suitable for both indoor and outdoor applications. Programming is quick and easy with the optional remote control so you don't need the ladder to change any of the settings.





OUR USP CUSTOMISED AUTOMATION



We undertake turnkey projects and offer solution in below segments:

FACTORY AUTOMATION

- › CONVEYER AUTOMATION
- › CONTROL PANELS
- › ENERGY MANAGEMENT SYSTEM
- › WAREHOUSE MANAGEMENT
- › IOT BASED SOLUTION

HOME AND BUILDING AUTOMATION

- › PARKING AUTOMATION & GUIDANCE SYSTEM
- › LIGHTING AUTOMATION
- › HOME AUTOMATION
- › BMS (BUILDING MANAGEMENT SOLUTION)
- › WATER MANAGEMENT SOLUTION
- › ACCESS CONTROL (CCTV MONITORING)
- › GSM BASED INTRUSION ALARM