



# Automation Overview 2015

Products, Solutions & Projects



₹60 Cr. Turnover  
120 People Co.

Think **Global** Act **Local**

Double Sensing, Extra Long life in Daily Use

**E2B**

Double Sensing Proximities



The Global Standard for Photoelectric Sensors

**E3Z**

Compact Photoelectric Sensors

New High Performance Photoelectric Sensors

**E3FA**

Short M18 Photo Sensors



Stainless Steel IP69K for Food & Pharma Industry

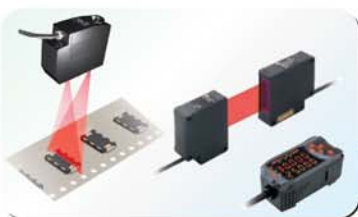
**E3ZM**

SS Color Mark Sensors

The High Speed Zero Maintenance Fiber Amplifier

**E3X-HD**

Smart Fiber Optic Sensors



2D Laser Profile and High Accuracy Laser Sensors

**ZG2/ ZX-LT030**

Thickness & Displacement Sensor

Advanced, High Speed Color Vision Cameras

**FQ2 / FZ4**

Color Vision Systems



3 in 1 High Speed RFID System with built-in Controller

**V680S**

Barcode & RFID Systems

22.5mm On/ Off/ Twin/ Star- Delta Timers

**H3DKZ**

Economical Din-Rail Timers



High Performance Controller with White Display

**E5CC / E5EC**

PID Temperature Controllers

High Resolution Color Touch Screen HMIs with Ethernet

**NB**

Economical Color HMIs



Economical High Performance PLCs

**CP1E**

Small Machine PLCs

High Performance Heavy Duty VFDs

**3G3MX2**

Variable Frequency Drives



Total Power Monitoring in Compact 22.5mm

**K8AK**

Measuring and Monitoring Relays

6mm Non- bendable Electromechanical & SSRs

**G2RV/ G3RV**

Ultra Slim Relays



The Standard Power Supply for Harsh Environments

**S8VK**

High Performance SMPS



General Purpose Relays



Heatsink Integrated SSRs



Micro & Limit Switches



Timers



Counters & Totalizers



Temperature Controllers



Digital Panel Meters  
Intelligent Signal Processors



Floatless Level Controllers



Proximity Sensors



Photoelectric Sensors



Photo-micro Sensors



Fiber Optic Sensors



Laser & Smart Sensors



Color & Vision Sensors



Non Contact Ultrasonic  
Level Sensors & Controllers



Safety Light Curtains, Relays  
Safety Scanners & Safety Mats



Encoders & Cam Positioners



Ionizers &  
Air Cleaning Systems



2D & RFID Systems



SMPS / Power Supplies



ZEN - Basic PLCs



CP1E - Economical PLCs



Modular PLCs



Process Control - PLCs



HMI



Device-Net, Modbus I/O Systems



Inverters / VFDs



Smartstep - Servo Drives

### Inductive Proximity Sensors

Standard & Long Body Sensors, Prewired & Connector Types  
DC 3 wire & AC/ DC 2 wire Types, M5-M30 Housing, 1~15mm Sensing

#### PI/ PQ Series



### Double/ Triple Sensing Proximity

Standard High Performance, Extended & Long Sensing Models  
M8- M30 Housing, 1~30mm Sensing, Prewired & Connector Types

#### PQ-D/ PQ-T Series



### SS Proximity Sensors

SS-303 Unibody Construction for Food & Pharma Industry  
Impact Resistant, Normal, Double & Triple Sensing Prewired & Connector

#### PQS Series



### Miniature Proximity Sensors

Ultra Thin & Miniature Proximity Sensors in SS/ Plastic Housing  
Ø3mm, M4, M5, Square & Flat Sensors, Prewired & Connector Types

#### PQ-M/ PRM Series



### Square/ Flat Proximity Sensors

Flat 5mm Sensing Proximity, Prewired & Junction Connectors  
17, 25, 30, 40mm Square Proximity Sensors in DC 3 wire & AC/ DC 2 wire

#### PR/ PRF Series



### Capacitive Proximity Sensors

M18, M30, Brass and Plastic Housing, DC 3 Wire & AC/ DC 2 wire  
Detects non- metallic Objects like PVC & Paper, Sensitivity Adjustment

#### PCK/ PCE Series



### Linear Output Sensors for Cording Machine

M12, M18 & M30 Flush/ Non-flush Analog Output Proximities  
10mm Sensing, 4-20mA/ 0-10V Output, Prewired & Connector Types

#### PQA Series



### Ring Proximity Sensors

Ø15, 22, 30mm with NPN/ PNP- NO, NC Selectable Dual Output  
Ø63, 99mm Models with NO&NC Dual Output & Sensitivity Adjustment

#### PIR Series



### Weld Immune Proximity Sensors

Weld Immune & Spatter Proof, M8, M12 & M18 Flush Types  
Upto 5mm Sensing, DC 3 Wire & AC 2 Wire, Prewired & Jn. Connector

#### PQ-W Series



### Aluminium / Iron Only Sensors

Ferrous Only/ Non- Ferrous Only Sensing Models, M12 & M18  
Upto 8mm Sensing, SS303, Flush & Non-flush, Prewired & Connector

#### PQS-F/ PQS-N Series

### High Temp./ Pressure Proximity Sensors

Upto 110°C, M12/18/30, Flush & Non- Flush Types, Silicone Cable  
M12, M18 High Pressure Sensors with SS Housing, O-ring, Upto 400bar!

#### PQH/ PQP Series



### Gear Tooth Sensors/ Reed Switch

M12 Gear Tooth Sensor, 50KHz, 2mm Sensing, NPN Output  
Reed Switch(SPST)/ 3 wire Output for C & T Groove Pneumatic Cylinders

#### PM/ PG Series

### M18 Metal Photo Sensors

IP-66, DC 3 wire Single/ Dual Output, AC 2 wire Models  
100/300mm Diffuse, 2M Retro-reflective & 5M Through Beam Types

#### F18 Series



### Compact/ Easy Mount Photo Sensors

Compact Rectangular, Easy Mount Types, Prewired & Connector  
DC 3 wire Dual Output, 1M Diffuse, 3M Retro-reflective, 15M Through Beam

#### FXE/ FK Series

### Miniature Photo Sensors

Flat Mount & Miniature Cube Types, Diffuse & Through Beam  
Red LED, Flat 3.5mm Thick, Upto 2M Sensing, Prewired & Jn. Connector

#### FMF/ FMC Series



### BGS/ Glass Sensing Sensors

Distance Settable, Background Supression Type, 200mm Sensing  
Easy Mount, Glass Sensing, Ø25mm Spot at 1M, Dual NPN/ PNP Output

#### FXE-BGS/ FXE-G/ ZX-BGS Series

### Long Distance Diffuse Sensors

2M sensing in Diffuse, Light On/ Dark On Types, DC 3 wire  
Rated for Outdoor Use, Anti-crane Collision, Prewired & Jn. Connector

#### FKF Series



### Long Distance Laser Sensors

High Power Laser Beam, Ø160mm Spot at 40M, Dual Output  
Through Beam & Retro Reflective Types, Prewired & Rotating Connector

#### ZXL Series

### Compact Laser Sensors

Upto 30M sensing, Diffuse, Retro Reflective & Through Beam  
Ø2mm Spot at 400mm, Crosstalk Prevention, Prewired & Connector

#### ZX Series



### Laser Displacement Sensors

High Precision CMOS, 2µm Resolution, Easy Teach, Upto 120±60mm  
Dual Channel DC 3 wire, 4-20mA/ 0-10V, 0.1% Linearity, Ø 0.15mm Spot

#### ZXD-B Series

### HQ Color Mark Sensors

High Accuracy with RGB LEDs, 18mm ±2mm, 8 Remote SV  
One Touch Teach, Timer Function, Auto RGB Selection, Digital Display

#### FX-CM Series



### Economical Fiber Optic Sensors

Simple Digital Amplifier, Button Teach, Reversible Display  
Basic Amplifier with DC 3 wire, Timer, Light On/ Off, 1ms Response

#### FOT-A/ FOT-D Series

### Advanced Fiber Optic Sensors

DC 3 Wire & 4-20mA Dual Output, 16µs Response, 5X Sensing Power  
High Speed, Auto Tuning, Sensitivity, Power Control, Mark/ Edge Sensing

#### FOX-D/ FOX-HD Series



### Fiber Optic Cables

Single, Multi, Coaxial Plastic, Point/ Line Beam, Front/ Side Sensing  
Through Beam, Reflective, High bending Radius, Anti- bending SS Heads

#### FOC Series

### Pressure Sensors & Transmitters

Dual Color Changing Display, Dual Outputs (Alarm & Analog)  
Vaccum, Compound, Positive Pressure, -1~ 4000 Bar, Food Grade

#### PS/ PSD Series



### Ultrasonic & Level Sensors

M18 Ultrasonic, 900/ 1600mm Sensing, DC 3 wire, 0-10V Output  
Electrically Isolated Optical Level Sensors, for use in Diesel/ Oil Tanks

#### UR-18 / LOS Series

### Safety Light Curtains

Type- II/ IV, 20,30, 50mm Pitch, 140~1600mm Protective Heights  
15M sensing, Dual NPN/ PNP Outputs, Self Checking, Muting Function

#### XLC/ XLD Series



### Safety Mats & Edges

4 wire, <1Kg (edge)/ <2Kg (bumper)/ <30Kg (mats) Activation Force  
Upto 5 million Activations, Upto 2.5M x 1.25M (mats), IP67, Heavy Duty

#### XAM/ XAE Series

### Economical Vision Cameras

Industrial CCD3 Color Cameras with PAL Output & DC Lens Control  
480 TVL, 10-bit DSP Processor, Built- in Image/ Flicker Compensation

#### VJ-A Series



### Digital Ammeters & Voltmeters

15mm LED, 5/2000A CT Selectable Ammeter, 500VAC Voltmeter  
48 x 48mm, 96 x 48mm Combo Unit, 240VAC Power Supply, Low Cost

#### DI/ DI-C Series

### Digital Process Indicators

48 x 48mm Scaling Meter, 15mm 4 digit LED, 500ms Sampling Time  
0-20mA/ 4-20mA/ 0-10V Input Selectable, Error Indication, Filtering Time

#### DIP Series



### Universal Process Meters

Dual Display, Current/ Voltage/ RTD/ TC Input, 12/ 24VDC Aux.  
240VAC Power Supply, 2 Alarm, Relay, Current Output, Modbus RS485

#### DMP/ DMU Series

### Economical Temperature Controllers

Dual Display PV & SV, PID Auto Tuning, 48 x 48mm, 96 x 96mm  
Upto 0.1°C Resolution, J, K, E, T, Pt100, CU100 Input, Relay, SSR Output

#### TC/ TCE/ TCS Series



### Advanced Temperature Controllers

PV, SV & Bar Graph, 2 Degree Fuzzy Logic PID, High Resolution  
50 Stage Ramp Soak, Universal Input, Relay, SSR, PID Current Output

#### TCA Series



### Plug-in Temperature Controllers

Low Cost, Dial Type, K Type, Relay Output, Proportional Control  
Digital PV, Thumbwheel SV, PID Auto Tuning, J, K Input, Relay Output

#### TCP Series



### Timer/ Counter/ Tacho./ Totalizer

6 Digit PV, SV, 10KCPS High Speed Input, Multiple Output Options  
Universal Input, Prescale, Batching, Dual Alarm, Battery Powered Model

#### KA/ KTC/ KD Series



### Floatless Level Controllers

110/ 230VAC Operation, Surge Protection, 5A SPDT Relay Output  
Automatic Water Supply and Drainage, Ideal for any Conductive Liquid

#### LC-FL Series



### Isolated Signal Convertors

Industrial Grade Rugged, Optically Isolated, 24VAC Supply  
4-20mA, 0-10V, Half Duplex RS- 232 to USB, Din Rail, Head Mounted

#### XT/ XV Series



### Digital Weighing Meters

High Performance, Upto 100 Samples/ Second, 5 Digit LED Display  
External Tare, Dual Alarm Outputs, RS- 485 (Modbus), 24VDC, 230VAC

#### DMW Series



### Miniature & Automotive Loadcells

2Kg~ 50Tonnes, Aluminium, Stainless Steel, Alloy Steel Types  
Miniature, Button, Shear Beam, Compression, Ring, Tension Loadcells

#### WL Series



**Advanced HMIs**

4.3"~15", 65K Hi-color LED Display, 256MB RAM, Recipe, Scheduler  
DataLogging, Multiple COM, LAN, USB, SD Card, FieldBus, PLC Gateway



**OT Series**

**Industrial Computers**

Industrial Touch Screen Panel PC, Box PC, Windows CE Terminals  
Intel Atom/ Core i3/ i5, 4GB RAM, 500GB HDD, Multiple COM Ports



**IPC Series**

**Remote I/O Modules**

22.5mm, Din Rail, Modbus via RS485, Digital, Analog, RTD, TC Input  
DAQ Software, 1KHz High Speed Input, Digital, Relay, Analog Outputs



**RM-IO Series**

**Micro PLCs**

Upto 88 I/Os, LCD Display, Password, RTC, 1KHz High Speed Input  
Function Block Diagram, PWM, Analog I/Os, Modbus, Battery Backup



**MINT Series**

**SMPS for OEMs**

Economical SMPS, Din Rail / Tray Mounting, 5/ 12/ 24VDC  
15- 350Watts, Upto 15A, Over Current, Over Voltage Protection



**SJ/ SSD/ SMD Series**

**Solid State Relays**

Compact 1Ø, 3Ø SSRs, Upto 350A, 24- 440VAC/ 12- 250VDC Output  
AC-AC, DC-AC, DC-DC Types, Extruded Heatsinks, Zero Cross Function



**ASP/ ASH Series**

**Tower Lamps & Turn Lights**

Ø25/ 45/ 56mm, LED, Bulb Type, Steady, Flicker, Buzzer Types  
Base, Panel and Pole Mounting, 1~5 Stacks, Turn Lights, Strobe Lamps



**TBK/ TLK/ TLS / TTB Series**

**Connector Cables**

Straight/ Right Angle  
M8, M12, Male, Female  
Euro, Pico, LED Indicator



**Sensor Testers**

Rechargeable Battery  
Dual NPN/ PNP Testers  
4-20mA Current Simulator





Magnetic Switches



Inductive Proximities



Stainless Steel Proximities



Speciality Proximities



Capacitive Proximities



Photo-electric Sensors



Miniature Photo Sensors



Fiber Optic Sensors



Laser & Displacement Sensors



Color Mark Sensors



Color Vision Cameras



Pressure Sensors & Transmitters



Ultrasonic Level Sensors



Level Sensors & Controllers



Safety Light Curtain Sensors



Safety Mats, Edges & Bumpers



Digital Panel Meters



Temperature Controllers



Counter/Timer/Tachos



Weighing Meters



Micro-PLCs & Text Panel



Remote I/O Modules



Advanced HMIs



Industrial Computers



Tower & Signal Lamps



SSR & Slim Relays



Isolated Signal & Protocol Converters



Sensor Connector Cables

High Precision Linear Displacement Measurement, 10 to 4000mm  
0.01mm Resolution, 0.01% Linearity, 10m/s Speed, Gold plated wipers

### NOVOTECHNIK Linear Position Sensors



Heating and cooling controls in one controller, Auto/ Manual, Modbus  
SSR/ PID Current output, 50ms High Speed Sampling &  $\pm 0.3\%$  Accuracy

### AUTONICS TK Temperature Controllers

Next Generation Advanced SCADA with BitLocker Encryption  
Unlimited Tags, Data Export, Remote Access, Huge Symbol Library

### AFCON PULSE Industrial SCADA



Economical Din Rail Mountable Slim Ethernet Hubs, 5, 8, 16 Ports  
Dual Optical Fiber Ports, Packet Protection, Managed & Un-managed

### DELTA Industrial Ethernet Hubs

3", 5", 7" & 10" Wide Screen, PC-HMI Communication Software  
65K Color, Hardware Function Keys, Ethernet, RS232, RS485, USB Ports

### DELTA Economical Color HMIs



No need for separate lift control panel, Built-in Elevator Program  
Control Cabin, Keys, Door from through the VFD by 2 wire control loop!

### DELTA Integrated Elevator Drives

Direct DC Bus Input from Solar Panel, No need for MPPT Panel  
Economical Solar Pump Controller, 1-100HP, 440V AC - 3 $\Phi$  Output

### DELTA 3 $\Phi$ Solar Pump VFDs



230V & 460VAC, 1 ~ 475 HP; Supports Fieldbus Cards; Heavy Duty  
Speed/ torque/ position control; 2in1 (induction & Synchronous motor)

### DELTA High Performance VFDs



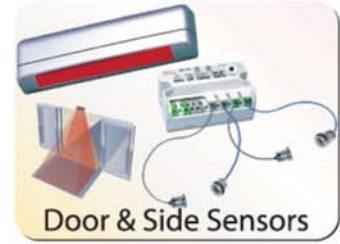
Proximity Sensors



Photoelectric sensors



Humidity & Temperature Sensors with RS-485



Door & Side Sensors



Timers & Counters



Day-Week-Year Timers



Temperature Controllers



Multi-function Panel Meters



Graphic Panels Device-Net Modules



Stepper Motors & Drives



Rotary Encoders



Signal Amplifiers & Power Controllers



Economical Block PLCs



Slim Rack Type PLCs



Economical Color HMIs



USB  
RS-232  
RS-485  
RS-422

Signal Converters



High Performance VFDs



Lift VFD with built-in ARD



Solar Pumps VFD with DC Bus Injection



AC Servo Motors & Drives



GERMANY



Pressure Transmitters



GERMANY



Control Panels



Loadcells



Indicators & Amplifiers



Crane Scales



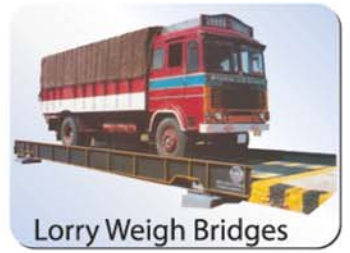
Belt Weighers



Weighfeeders



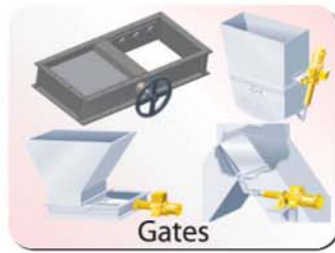
Solid Flow Meters



Lorry Weigh Bridges



Linear Actuators



Gates



Dampers



Compact Geared Motors



Speed Control Units



AC Motor Gearheads



Bar Graph/ Chart Recorders



Temp./ Pressure Transmitters  
Thyristor Power Controllers



Signal Converters &  
Multi-point Temp. Scanners



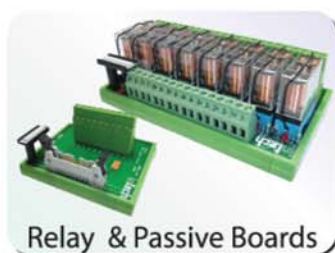
Linear Transducers



TAIWAN



SMPS (Power Supplies)



Relay & Passive Boards



Signal Converters  
& Isolators



RTD, TC & Sensor Cables

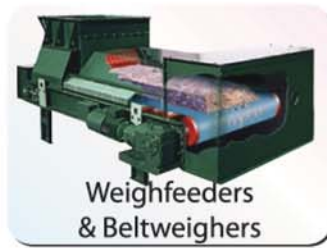




Tank Weighing Systems



Online Filling Systems



Weighfeeders & Beltweighers



Weigh Batching Systems



EOT Crane Weighing



EOT & Gantry Crane Anti-collision Systems



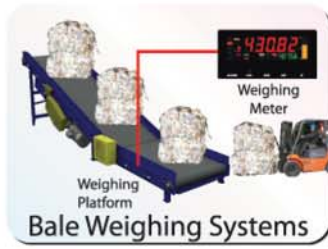
Rope Tension Monitoring Systems



Telescopic Crane Overload Protection



Weigh Bagging Systems



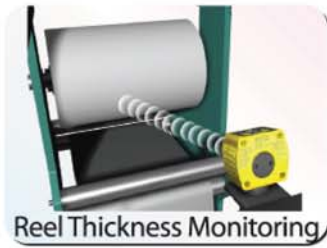
Bale Weighing Systems



Truck Filling Systems With Mobile Monitoring



Ready Mix (Concrete) Batching Systems



Reel Thickness Monitoring



Reel Weighing System



Rewinder Tension Control



Tank Level Monitoring



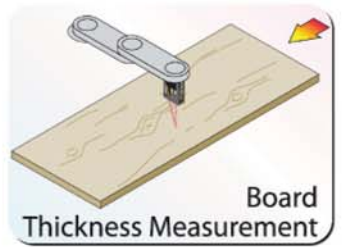
ID & FD Fan Efficiency Improvement



Web Alignment Control Systems



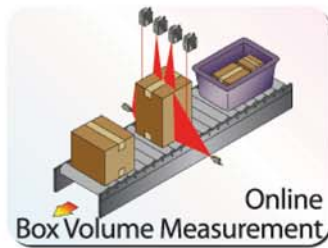
Cut to Length Systems



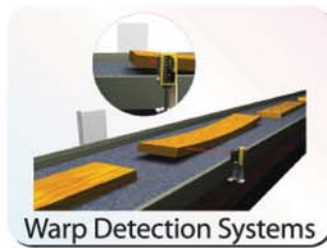
Board Thickness Measurement



Online Sorting Systems



Online Box Volume Measurement



Warp Detection Systems



Blister Pack Inspection



Modular Inspection Conveyors



GSM-PLC Based Remote Monitoring



RFID Asset Tracking System



Zigbee Wireless Modbus Data Acquisition Systems



Internet Remote Plant Monitor



Safety Light Curtain for Press



Panel Building



Automatic Puzzle Car Park

Automation Solutions & Projects incorporating the Best Global Brands



### Sensing Solutions

Proximity, Photo, Fiber, Laser, Ultrasonic Sensors  
Encoders, Pressure Transmitters, Ionizers, etc.

### Control Components

Relays, SSRs, SMPS, Timers, Counters, Switches  
Temperature Controllers, Panel Meters, etc.



### Automation Systems

Micro / Modular / Rack PLCs, HMIs, SCADA, VFDs  
Servo / Stepper Motors and Drives, etc.

### Vision, RFID & Safety Solutions

Safety Light Curtains, Scanners, Switches, Relays  
Safety Mats, Controllers, Vision Cameras, etc.



### Weighing & Instrumentation

Loadcells, Transmitters, Tank/Hopper Weighing  
Batching, Modular Conveyors, Beltweighers, etc.

### Control Panels & Accessories

Tower Lights, Pushbuttons, Hooters, Pneumatics  
MCBs, MPCBs, ELCBs, RCBs, Contactors, etc.



An ISO 9001:2008 Certified Company

Catalogue No.: IG16P-A13



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