



CUSTOM SENSORS & TECHNOLOGIES

INDUSTRIAL DIVISION



*Sensing
a Better
World*



CST—Delivering Innovative Product Solutions

As our name implies, Custom Sensors & Technologies (CST) is your source for sensors, controls, and actuation products—whether you're in the transportation, industrial, or aerospace and defense markets. A global business unit of Schneider Electric, CST is comprised of the industry-leading brands of Crouzet, Kavlico, and Crydom, as well as the former divisions of BEI Technologies, including Newall and Syston Donner.

CST is headquartered in Moorpark, California, with operations worldwide. Our extensive R&D resources, market expertise, state-of-the-art manufacturing, customer service, and superior quality practices ensure that our products are always at the forefront of innovation. In short, our designs empower you to be more competitive in today's challenging markets.

Each CST brand has a track record of excellence. With the support of our nearly 4,500 dedicated employees, CST is your global powerhouse for high-volume, OEM, application-specific products.

So whether you need a customized pressure sensor for an automotive application, a micro-control for a breakthrough medical device, or perhaps a rudder position sensor for the next-generation jetliner, there's only one true choice—CST...continuously "Sensing A Better World".

Addressing the needs of the Industrial marketplace

The industrial marketplace demands continuous improvements in productivity. Higher production speeds, lower costs to produce, flexibility in production mix, and longer life are just a few of the factors which drive sensor, actuator, and control demand in today's industrial economy. Industrial customers require products that are easily integrated into their systems. They also want them delivered quickly and to be of the highest reliability and quality for each and every order. Not only meeting, but also exceeding these demanding requirements is what CST does best. Our products are the recognized name brands in industrial sensors, actuators, and controls due to their high performance and productivity-enhancing attributes. Our delivery and service levels are second to none, allowing our customers to get and quickly apply our products. CST's exceptional product quality sets us apart from our competitors.

CST brands include:

Crouzet – position sensors, micro-switches, micro-controls, motors & actuators, limit switches, and solid-state relays

Kavlico – pressure and other specialty sensors, transducers, and transmitters

Crydom – solid-state relays and related products

Newall – digital readout systems and linear encoders

BEI Kimco Magnetics – voice coil actuators and brushless DC motors

BEI Industrial Encoders – industrial encoders

BEI Duncan Electronics – position sensors

BEI Ideacod – industrial encoders

At CST, we are committed to design, manufacture, and offer the industrial market the best sensors, controls, and actuation products available to the market—today and in the future. CST provides a wide array of devices for process control and industrial automation, machine tools and medical equipment, HVAC and refrigeration, oil services and water treatment, semiconductor processing and compressors, elevators and rolling shutters, material handling and packaging equipment, as well as access control, motor feedback, food processing... the list is endless.

Our broad portfolio of products, long history in the varied industrial sector, as well as our global presence, translate into CST's ability to provide the right product at the right price. Whether your need is for a pressure sensor to measure variable air volume (VAV) in a building ventilation system, a solid-state relay to control a traffic light, or an encoder to provide precise position feedback on a food processing and packaging line... CST products will deliver!





Optical Encoders

Exceptional Standards & Processes for Accurate Reliable Performance

As a market leader of industrial optical encoder technology for precision motion control, CST's BEI Industrial Encoders and BEI Ideacod brands provide feedback (position and speed) to control systems, insuring accurate and consistent performance for a host of general industrial and machinery applications.

Exceptional manufacturing standards and processes include inspection of dozens of electrical parameters on every encoder produced, as well as confirming each unit's mechanical compliance with its set of operating specifications.

Our rugged encoders perform with unparalleled reliability in a wide range of conditions including wet, dirty, hot, cold, corrosive, and explosive environments. Flexibility of designs allows the user to customize encoders to their exacting requirements, minimizing the need for unnecessary and potentially costly special options.

APPLICATIONS

- > Factory Automation
- > Elevators
- > Printing
- > Food Processing
- > Drawworks
- > Oil Well Logging
- > Agricultural Machinery
- > Textile Equipment
- > Web Process Control
- > Top Drives
- > Mining
- > Dam Control
- > Cranes & Hoists
- > Telescopes
- > Antenna Pointing
- > Process Control

Designed to Withstand Harsh Environments

Our broad range of specialty encoders has been designed to withstand a multitude of operating conditions. For hazardous environments, we offer encoders that conform to recognized industrial standards including UL, CE, CSA, ATEX, CENELEC, and MSHA. Stainless steel housings and environmentally sealed encoders for applications with heavy wash-down, water immersion or chemical exposure, as well as encoders with extended temperature testing for high and low temperatures, are also available.

In addition to encoders, electronic modules, custom cable, connectors, cable assemblies, couplings, and adapters are accessory add-ons to complete our product line. Of special note, is our BEI Brand of SwiftComm™ wireless interface module that allows for encoder installation without the constraints of a hard-wired system.

*Rugged encoders
perform with
unparalleled reliability*

Most environmentally rugged encoders on the market today

Linear Encoders Increase Efficiency

Providing machine tool and production industries with leading-edge technology, increased productivity, and machine tool efficiency is accomplished with CST's highly accurate Newall brand of Spherosyn™ linear encoders. The Spherosyn product line incorporates a unique design in that none of the electrical measuring components are exposed to the harsh work environment.

IP67 rated, CST linear encoders can be fully submersed in water, oil, or even coolant and still provide accurate, reliable readings. These encoders not only provide the highest efficiency level to the machine tool market, they are the most environmentally rugged encoders on the market today.

Other benefits of our linear encoders include:

- Completely sealed designs
- Withstand dust, dirt, and other harsh environmental conditions
- No mechanical wear characteristics
- No cleaning or maintenance required
- No air purge required
- High tolerance to shock, vibration, and magnetic interference
- Easy installation

Digital Readouts (DROs) Complete the Package

Designed for use with our linear encoders, CST DROs offer exceptional value due to a full complement of productivity enhancing features. From compact designs suited for space-restricted applications to special packing for milling machine operations, our DROs can be specified for panel-mounting or stand-alone operation for manual machine tools.

- Rugged die cast chassis
- Wipe clean front panels
- Absolute/Incremental operation
- Inch/Metric conversion
- CE Approval

CST... providing built-to-last solutions for the machine tool industry.

APPLICATIONS

- > Machine Tools
 - Lathes
 - Mills
 - Grinders
- > Factory Automation Machinery
- > Production Equipment



APPLICATIONS

- > Limit Switches
 - Machine Tools
 - Access Management
 - Agricultural Machinery
 - Cement Works
 - Lifting & Handling Equipment
- > Micro-Switches
 - Industrial Machines
 - Domestic Appliances
 - Vending
 - Electronic Signage
 - Access Management
 - Electrical Equipment
 - Office Automation
- > Sealed Micro-Switches
 - Medical Equipment
 - Handling Systems
 - Rolling Shutters
 - Valves & Fittings
 - Access Barriers
 - Portable Electronic Equipment

*Meeting the need of the
industrial market sector
for over 30 years*

Limit Switches for Efficiency of Control and Safety in Action

Hazardous environments are no match for CST limit switches. Our easy-to-use, easy-to-install devices operate in severe conditions where dust, mud, water, and high vibration are a common occurrence. Suitable for a wide range of applications, CST's durable and highly reliable limit switches increase overall cost-effectiveness and allow you to be more competitive in today's global economy. A typical CST limit switch application reports when mechanical systems such as a crane, reaches the end of travel... a vital operational parameter monitored by a CST limit switch.

A Micro-Switch for Every Need

Our extensive line of Crouzet micro-switches has been meeting the needs of the industrial market sector for over 30 years. Specializing in innovative, high quality customized products developed from our cost-effective standard designs, CST's reliable micro-switches can be easily integrated into modular or application-specific platforms in partnership with individual customer specifications.

Sub-Sub Miniature

- Long mechanical life
- Small, compact designs
- Short differential travel

Sub-Miniature

- Double break switching
- Many electrical ratings
- Mushroom button heads

Miniature

- High rating or low current
- Positive break and dual current versions
- Numerous actuators

Protected

- Double break switching
- High DC switch ratings
- Numerous mounting plates

From standard off-the-shelf designs ready for immediate shipment to customized devices with factory mounted accessories—CST has the solution!



Position Sensors

Time-Proven Technologies for Long Operational Life

CST offers a wide range of standard, high performance position sensing products that use time-proven technologies. Our BEI Duncan brand of contacting potentiometric and non-contacting Hall Effect sensors are rugged devices that not only survive, but accurately and reliably perform in hostile environmental situations.

Whether you need 1 or 100, CST position sensors will fulfill your application-specific requirements for both linear and rotary position applications.

Potentiometric – Conductive inks have been refined to provide long-life and durable operation while keeping product cost low.

Hall Effect – High accuracy, extended operational life, no mechanical wear, and 360 degree rotational capability, while operating in high vibration environments.

Many Solution Alternatives

Our broad line of linear motion position sensors provide the system designer with many solution alternatives. Made from infinite resolution conductive plastic, our sensors are characterized by their long service life and smooth, low-noise performance. Our line of rotary devices can be supplied as single-turn or multi-turn depending on application needs.

Adapting standard products to create custom designed packages to fit unique configuration and performance criteria is a CST strength. Easy to use, our space-conscious sensors offer flexible mounting options for trouble-free installation and maintenance. On-going assistance is provided to our customers to insure proper implementation.

*Adapting standard products
to create custom
designed packages for unique
configurations*



APPLICATIONS

- > Handling & Lifting Systems
- > Instrumentation
- > Access Control
- > Agricultural Machinery
- > Medical Equipment



Pressure Sensors

Delivering High-Volume, Field-Proven Solutions

As one of the largest pressure manufacturers in the world today, CST has millions of pressure and specialty sensors installed around the globe providing a diverse variety of industries with cost-effective, accurate measurement solutions. CST is a high-volume manufacturer with unmatched manufacturing capabilities. In fact, CST's field-proven ceramic capacitive sensors were first brought to market by our Kavlico brand.

- Gage, sealed gage, absolute, atmospheric, and differential pressure
- Combined pressure & temperature
- Specialty sensors

Custom Designs

At CST, we put the "custom" in customer. Our team of design engineers match our sensing technologies—ceramic capacitive, oil filled piezo-resistive (PRT), PRT, thin film, silicon micro-machined, or single chip capacitive MEMS—to the specific customer measurement design criteria. This minimizes cost and maximizes performance while assuring application suitability.

Flexible design practices allow CST to offer a wide variety of housing materials, pressure ports, and electrical connection options, as well as output formats and pressure references to ensure that operational parameters are achieved.

Concentrating on prevention rather than detection, CST's quality systems conform to ISO 9001 International standards. Key products meet CE and UL requirements, and comply with RoHS European regulations.

Outstanding Sensor Features

Our rugged sensors can be installed in harsh operating environments and feature repeatable, accurate measurements over the lifetime of your equipment. Sensors are capable of withstanding high shock and vibration, have EMI/RFI, and offer high overpressure protection along with high humidity tolerance. These low-power devices are temperature compensated over a wide operating range, reducing system costs.

APPLICATIONS

- > HVAC
 - VAV Systems
 - Duct Air Flow
 - Filter Pressure Monitoring
 - Modulated Furnace Control
 - Gaseous Leak Detection
- > Compressors
 - Suction & Discharge
 - Vacuum Sensors
 - Transmitters
- > Refrigeration
 - Chillers
 - Supermarket Refrigeration
 - Refrigerant Recovery
 - Transport Refrigeration
 - Environmental Test Equipment & Instruments

Minimizing cost and maximizing performance while assuring application suitability

HVAC & Refrigeration

At CST, our low-range differential pressure (DP) sensors set the standard for mBar sensors measuring duct airflow in variable air volume (VAV) systems. With nearly 20 years of high-volume experience and millions of devices installed worldwide, our DP sensors provide cost/performance levels unparalleled in the industry. Our newest line of DP sensors exhibit no position sensitivity and are ideal for high vibration environments.

Understanding the challenges faced by design engineers of modern refrigeration equipment is critical to CST's success. CST offers sealed sensing solutions for the most demanding process media, including the latest refrigerants such as R134a, R22, R123, and R12, while our cost-effective ceramic capacitive sensors are used for other cost sensitive HVAC applications. Highly stable and accurate, our rugged line of sensors can be configured to fit unique application parameters with a variety of housings, pressure ports, electrical connections, and output options.

General Industrial

Designed and manufactured for demanding OEM industrial applications, CST's durable pressure sensors feature stainless, brass or composite housings, have high overpressure capability, are EMI/RFI protected, exhibit low hysteresis, and can be ordered in pressure ranges of 1" H₂O up to 10,000 PSI.

Whether your requirement is for 1,000 or 100,000, CST has a cost-effective sensor solution ready to fit your application.

Medical

Small in size, our medical pressure sensors provide a linear amplified output proportional to pressure. Measurement ranges are from 30cm H₂O to 75 PSIA/PSIG. The low power consumption sensors are compatible with a wide array of process media and are available in remote or board mount designs.

APPLICATIONS

- > General Industrial
 - Backup Power Generators
 - Process Control
 - Irrigation Control
 - Food & Beverage
 - Printing
 - Plastic Injection Molding
 - Construction Equipment
 - Hydraulics
 - Water Level
 - Waste Water Pressure
- > Medical
 - Respirators & Ventilators
 - Sleep Apnea – CPAP & BiPAP
 - Spirometers & Surgical Equipment
 - Mattresses & Medical Beds



APPLICATIONS

- Micro-Controls (Millenium 3)
 - Renewable Energies
 - Heat Pumps & Solar Panels
 - Water Treatment Monitoring
 - Fluid Management
 - Pump Control
 - Level Control & Monitoring
 - Irrigation Systems
 - Commercial Equipment
 - Vending Equipment
 - Rolling Advertisement Signage
 - Car Wash Equipment
 - Access Control
 - Automatic Gates
 - Parking & Toll Barriers
 - Revolving Doors
 - HVAC (Compressors)
 - Agricultural Equipment
 - Farm Machinery
 - Tractor Auxiliaries
 - Greenhouses
 - Machinery
 - Woodworking & Plastics
 - Packaging
 - Food Processing
- Control Relays (C-Lynx)
 - Renewable Energies
 - Heat Pumps & Wind Wheels
 - Water Treatment
 - Tanks, Sewage & Lift Stations
 - HVAC
 - Compressor & Motor Protection
 - A/C Units & Dehumidifiers
 - Power Generators & Transformers
 - Conveyors
 - Industrial Ovens & Dryers
 - Agricultural Machinery
- Temperature Controllers
 - HVAC
 - Medical Equipment
 - Industrial Ovens

Micro-Controls

Logic Controls

CST's 3rd generation of logic controllers is a culmination of our expertise in automation systems acquired over more than 30 years. Our Crouzet brand of Millenium 3 Logic Controller can be used to automate small devices requiring between 3 to 50 I/O. The M3 logic functions can be applied to packaging systems, access control, vending, irrigation, pump management, heating, A/C control, and more. The M3 is available in a compact version for simple control systems or an expandable version for enhanced performance.

Functions – Timing, PID regulation, counting, value storage, calculation, and more

Communication – Wired (Modbus/Ethernet/STN Modem) or Wireless (Bluetooth/GSM Modem)

Control Relays

Looking to prevent costly machine breakdowns and downtime? Then install a CST control relay. Be informed of potentially destructive operating conditions by improving your production tools with a C-Lynx control relay for close supervision and protection. Monitor and detect abnormal operating conditions of an electrical or physical value (voltage, current, phase, level). By using a Crouzet brand of CST control relay, you will optimize your production management, reduce incidents, and minimize adverse affects on productivity and operating costs.

Temperature Controllers

Similar in operation to control relays, CST temperature controllers provide precise temperature adjustment to a preset value known as the setpoint. Generally panel mounted, our controllers assist with heating modulation, optimization of temperatures, and limit temperature variation in relation to the setpoint.



Timers

CST timers can be specified mono-function or multi-function, have delay on power-up, flasher, and totalizer features, as well as being capable of customizing the time ranges according to customer parameters in either fixed or lockable modes. Whether digital or electro-mechanical, panel or front mount, you can count on CST timers to perform.

Safety Relays

Our safety relays can be configured with various safety levels, two-hand controls, emerging stops and mobile guards, cutting motor speed, and ISO-leveling zone for lifts and elevators.

Our relays provide an economical, quick, and easy way to adjust the time delay of an event (switching off lighting), to determine the duration of an operation (cooking time), or to synchronize an action (affix a label).

Counters

CST multi-function counters simplify your production management by using high speed counting up to 5kHz with a legible 6-digit digital display.

Typical features include: Up/down counter, Batch counter, Tachnometer, Chronometer, Multi-totalizer, Elapsed time counter, and Pulse counter. In conjunction with various detectors, our counters can stop a machine, trigger an alarm, or control an actuator.

CST micro-controls, timers, safety & control relays, and counters are fully compliant with the latest RoHS European regulations.

*Stop a machine...
trigger an alarm...
or control an actuator*



APPLICATIONS

- > Timers
 - Irrigation Systems
 - Elevators & Escalators
 - Conveyors
 - Industrial Ovens
 - Industrial Dryers
 - Dosing Systems
 - Industrial Washing Machines
 - Plastics Machinery
- > Safety & Control Relays
 - Wrapping Machines
 - Printing Machines
 - Woodworking Machines
 - Elevators & Escalators
 - Fluid Management
 - > Pumping
 - > Spraying
 - > Misting
- > Counters
 - Wrapping Machines
 - Woodworking Machines
 - Textile Machines
 - Conveyors
 - Car Parks
 - Dosing Systems
 - Gaming Equipment



Solid State Relays

No Wear, No Noise, Long Operating Life

CST is the global expert in Solid State Relay (SSR) technology. Our customers can select from thousands of our catalog, off-the-shelf designs, or coordinate with our design team to develop the highest quality custom solution at a competitive price... with a timely delivery schedule.

In comparison to contacting electro-mechanical relays that wear and make noise, CST solid state relays have superior performance characteristics with no wear, no noise, and a longer operating life.

CST offers a comprehensive line of Crydom SSRs that can be specified in panel mount, printed circuit mount, or Din rail configurations rated from 1 to 150 amps AC at 24 to 660 VAC and .01 to 100 amps DC at up to 1000 VDC.

Our exhaustive testing methods and practices insure our SSRs meet 100% of their specification criteria. Most of our relay products are approved by UL, CSA, VDE, and carry the CE mark signifying conformance with the latest European directives.

APPLICATIONS

- > Food Equipment
 - Electric Grills
 - Warming Tables
 - Fryers & Ovens
- > Heating & A/C Systems
- > Lighting
 - Warehouse
 - Theatrical
- > Medical Equipment
 - Sterilizers
 - Incubators
- > Motor Control
- > Refrigeration
- > Temperature Control
- > Elevator & Lift Control
- > Packaging
- > Industrial Automation
- > Process Control
- > Semiconductor Processing
- > Injection Molding

An SSR for Every Application

At CST, we specialize in satisfying the most demanding environmental and performance requirements our customers can devise for hundreds of applications in the heating, lighting, medical, refrigeration, motor control, and temperature control markets.

As part of our on-going R&D efforts to respond quickly to our customers' requirements, CST continues to create new circuit and technology-related strides to always be at the forefront of SSR design... a necessity in today's fast paced, global economy.

*Satisfy the most demanding
environmental and
performance requirements*

Motors & Actuators

Optimizing Motion Control Design

At CST, we integrate our expertise with customer requirements by using the latest technologies. We provide direct drive actuation products for speed and efficiency in motion control applications from factory automation to torquers ideal for gimbal drives, robotics, and other stabilized platform applications. The result is fast, quiet, more reliable devices for semiconductor and medical equipment, where throughput, and life itself, are critical to success.

CST's BEI Kimco Magnetics brand of voice coil actuators is engineered to fit high performance motion control needs. The hysteresis-free, cog-free operation, and high acceleration rate make our voice coils ideal for limited stroke requirements.

- Rotary Actuators feature maximum stroke of $\pm 60^\circ$, maximum torque of 45Nm. Arc-segment or cylindrical designs.
- Linear actuators are direct drive, hysteresis-free, cog-free devices offering high acceleration and "clean" technology. Provide infinite position sensitivity and have smooth force vs. stroke characteristics. Cylindrical, rectangular, or housed designs.
- Smart actuators have an integrated position feedback sensor for servo positioning or velocity control.

Our comprehensive line of fractional horsepower brushless DC motors are available in sizes from 1.1" diameter to 4.0" diameter.

CST's Crouzet brand offers the following motor technologies:

- Direct drive and geared brush DC motors
- Direct drive and geared synchronous motors
- Linear actuators/synchronous motors
- Direct drive and geared stepper motors
- Linear actuators/stepper motors
- Direct drive and geared brushless DC motors
- Direct drive and geared BLDC with integrated amplifier and logic controller

At CST, we provide integrated, customizable solutions for a broad range of application challenges.

APPLICATIONS

- > Voice Coil Actuators (Linear & Rotary)
 - Ventilators
 - Wafer Positioning/Lifts
 - Lens Grinding
 - Pick & Place Machines
 - Laboratory Shakers/Vibrators
 - Scanners
 - Wire Bonders
- > Motors
 - Brush DC
 - > Hospital Beds
 - > Peristaltic Pumps
 - > Conveyors
 - > Household Appliances
 - Brushless DC
 - > Medical Equipment
 - Ventilators/Respirators
 - Sleep Apnea – CPAP
 - Surgical Hand Tools
 - Blood Analyzers
 - Scanners & Pumps
 - Ultrasound Probes
 - > Food Equipment
 - Processing
 - Cooking
 - > Automatic Doors
 - > Rolling Displays
 - Stepper
 - > Valve Control
 - > Laboratory Equipment
 - Synchronous
 - > Food Equipment
 - Conveying
 - Cooking
 - > Pump Systems



Testimonials

“Kavlico pressure transducers have served us well. We have used perhaps 100,000 or more of their P4000 transducers in supermarket refrigeration systems. Kavlico has a wide variety of pressure transducers built around several different pressure sensing technologies that are suited for a wide variety of applications. Thus, their motto “Technology That Fits”. Kavlico is one of the few genuine success stories in the pressure transducer business, having done well and still doing well both technically and as a business.”

Richard Vogh
Staff Engineer, Computer Process Controls, Inc.
(DBA Emerson Retail Solutions)

“For 10 years as Production Manager with responsibility for purchasing and engineering, and now as Product Engineering Manager, I can highly recommend Crouzet switches. Cost, reliability, and engineering quality has always been high on Aspen Pump’s agenda, and Crouzet switches have consistently given our products exactly the performance characteristics we are looking for. In my opinion, customer relationships are one of the key components of a company’s success, and Crouzet scores high in this key area. Our relationship with Crouzet has built into a partnership over the years with a great understanding of our needs.”

Bob Covey
Aspen Pumps
United Kingdom

“We continue to be impressed by the level of quality of the products and customer service afforded us by BEI Kimco Magnetics, and look forward to future product developments to better improve the performance of our own instruments.”

Matt LaConte
Project Engineer
Leica Biosystems St. Louis, Missouri, USA

“Crouzet has been a valued supplier of geared stepper motors to Harvard Apparatus for more than 4 years. Crouzet has always been on time with their deliveries and the quality of their motors has been excellent.”

Mark Davis
Engineering Manager
Harvard Apparatus

“Newall encoders and DROs have given us years of trouble-free service on our milling machines. The accuracy and repeatability of the Spherosyn encoder is fantastic. They can’t be beat for reliability, durability and overall performance. We are looking to purchase another Newall DRO for our lathe soon.”

Bob Geesey
Lead Machinist
Gerhardt – U.S.A., Dallastown, PA

“As a market leader in solid state relays, Crydom is a valued supplier partner of Newark. Continuous innovation and product reliability keep Crydom well-positioned for sustained growth in Newark’s high service distribution channel.”

Cameron Ward
VP Regional Supplier Management
Newark

“Allied’s growth and success can be attributed to our focused approach of putting the customer first and working closely with key supplier partners, such as Crydom.”

Lee Davidson
President
Allied Electronics

“Kavlico, as a long-standing supplier to Siemens Building Technologies, Inc., demonstrates a commitment to service and support which has allowed us to be responsive to our internal and external customers. There are enviable challenges to meet the increasing demands of our marketplace, from both a cost and product performance perspective, and we have confidence that Kavlico will remain committed to these priorities and allow our organization to be responsive to our customers.”

Marc R. Marcus C.P.M.
Commodity Manager
Siemens Building Technologies, Inc.

“BEI Industrial Encoders continually provide us with good quality products and outstanding customer service. We rely on their on-time delivery to compete in a JIT environment. If problems arise they are taken care of promptly and without compromise.”

Ken Brumley
President
Brumley Enterprises

CST Operations



CROUZET

2 rue du Docteur Abel BP 59
26902 Valence Cedex 9
France
+33 (0)4 75 44 88 44
www.crouzet.com

Product Description:

Position sensors, micro-switches, micro-controls, motors & actuators, limit switches, solid state relays, cockpit equipment, electrical protection devices for the transportation, industrial, and aerospace markets



NEWALL

Technology Gateway
Cornwall Road South Wigston
Leicester LE18 4XH
United Kingdom
+44 (0) 116 264 2730
www.newall.com

Product Description:

Digital readout systems and linear encoders for the machine tool and industrial markets



KAVLICO

14401 Princeton Avenue
Moorpark, CA 93021
(805) 523-2000
www.kavlico.com

KAVLICO GmbH

Potsdamer Str. 14
32423 Minden, Germany
+49 571 3859 0

Product Description:

Pressure, position (LVDT & RVDT), force, cockpit devices, level, and other specialty sensors, transducers, transmitters, and devices for the transportation, industrial, and aerospace markets



BEI KIMCO MAGNETICS

2470 Coral St., Bldg. D
Vista, CA 92081
(800) 572-7560
www.beikimco.com

Product Description:

Voice coil actuators and brushless DC motors for the industrial and aerospace markets



BEI INDUSTRIAL ENCODERS

7230 Hollister Ave.
Goleta, CA 93117
(805) 968-0782
www.beiied.com

Product Description:

Industrial encoders



CRYDOM

2320 Paseo de las Americas, Suite 201
San Diego, CA 92154
(877) 502-5500
www.crydom.com

Product Description:

Solid state relays and related products for the industrial market



BEI DUNCAN ELECTRONICS

170 Technology Drive
Irvine, CA 92618
(949) 341-9500
www.beiduncan.com

Product Description:

Position sensors for the transportation, industrial, and aerospace markets



BEI IDEACOD

9, rue de Copenhague
BP 70044 Schiltigheim
67013 Strasbourg CEDEX
France
+33 (0)3 88 20 80 80
www.bei-ideacod.com

Product Description:

Industrial encoders



crydom®

NEWALL

BEI
KIMCO MAGNETICS

BEI
INDUSTRIAL ENCODERS

BEI
DUNCAN ELECTRONICS

BEI IDEACOD

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