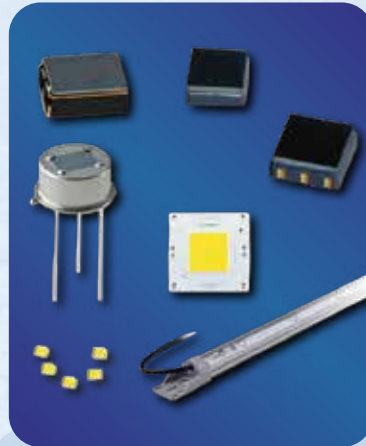




FAST ELETTRONICA

Supporting your innovation



FAST ELETTRONICA

Fast Elettronica has been operating in the electronic components market since 1976, distinguishing itself through the distribution and representation of globally leading manufacturers.

Thanks to consolidated experience and long-term strategic partnerships, the company provides highly qualified solutions in the fields of electromechanical components, optoelectronics, and sensors.

Over the years, Fast has strengthened its presence in high-technology markets, including automotive and off-road transportation, home automation, home appliances, security, lighting, consumer, automation and medical applications.

Technical expertise, reliability, and a strong customer-oriented approach have always guided the company's growth and positioning. The quality of our products and the excellence of our service, supported by more than 1,000 items managed in stock, represent key elements of the success that distinguishes us.

Our technical sales engineers support designers during the design-in phase, actively collaborating in the integration of our products and building strong, long-lasting relationships with customers. We offer a high level of flexibility and a highly qualified team dedicated to transforming your ideas into customized solutions, with the goal of ensuring maximum satisfaction in every project.





Angular Sensors and Potentiometers

Angular sensors and potentiometers are essential devices for detecting position and angular movement across a wide range of applications. Thanks to their precision, reliability, and robustness, they are widely used in technologically advanced sectors such as automotive, agricultural tractors, construction machinery, and industrial equipment.

Kyocera AVX Temperature Sensors

Kyocera AVX temperature sensors are designed to provide highly reliable and accurate thermal monitoring solutions, making them ideal for a wide range of applications, particularly in critical sectors where temperature management is essential. Thanks to their excellent performance and robust construction, these sensors are well suited for operation in extreme environments and demanding conditions.



Kyocera AVX Pressure Sensors

Kyocera AVX pressure sensors are crucial components for monitoring and managing a wide range of applications, ensuring high performance, precision, and reliability. Designed to operate in challenging environments, these sensors provide accurate and timely data, helping to optimize efficiency, safety, and the longevity of the systems in which they are used.



Speed and Proximity Sensors

Speed sensors are advanced devices designed to deliver precise and reliable measurements in dynamic applications where monitoring speed is essential to ensure the proper operation of machinery and systems. Thanks to their ability to detect rotational or linear motion speed, these sensors play a key role in numerous industrial and commercial sectors. Kyocera AVX proximity sensors provide an advanced solution for detection and positioning in a wide range of industrial applications.





CTS Potentiometers

CTS is a leader in the design and manufacture of robust, reliable, and high-quality rotary potentiometers used by major customers worldwide. Built with carbon composition, conductive plastic, or wirewound elements, these potentiometers are capable of operating in harsh environments and at high temperatures. Certain models offer protection ratings up to IP67 and a lifecycle of up to 3 million cycles. Decades of experience and manufacturing excellence enable CTS to provide a comprehensive range of products and customized solutions designed to meet the needs of customers in the industrial, transportation, and medical markets.

CTS Position Sensors

Rotary position sensors are used in applications that require electromechanical feedback of a position change, directional change, or rotational speed. Most applications requiring position feedback use a rotary position sensor to translate a change in angular mechanical position into an electrical signal, or a linear position sensor to convert a change in distance into an electrical signal. The general purpose is to detect movement or change and provide feedback to system controls in order to determine the next action. CTS offers a wide range of contactless and contact-based solutions suitable for most applications, from harsh industrial environments to off-road applications, forklifts, and construction machinery.



CTS Encoders

CTS encoders are electromechanical and optical devices that measure and convert the position or rotation of a shaft into an analog or digital output signal. This makes them highly valuable in applications that rely on instantaneous, accurate, and reliable position monitoring, such as industrial automation, medical equipment, and audio equipment.

CTS TEWA Temperature Sensors

CTS offers a wide range of high-quality temperature sensing solutions. Our temperature sensor portfolio includes all standard industry technologies, including PTC and NTC thermistors, pure metal resistance temperature detectors (RTDs), and thermocouples. Also available are our USB-connected DirecTemp® thermometers and highly customizable temperature probes. With more than 40 years of experience in the development and manufacturing of temperature sensors, CTS ensures a sensing solution suited to the specific requirements of your application.



CTS DIP Switches

CTS DIP (Dual In-line Package) switches are widely used in the industrial market as a reliable means of manual circuit control. Our range of DIP switches offers a broad selection of options with various actuation types, mounting configurations, as well as different terminal materials and designs. Over the years, we have also optimized the structure of our switches to provide enhanced protection against electrostatic discharge (ESD).

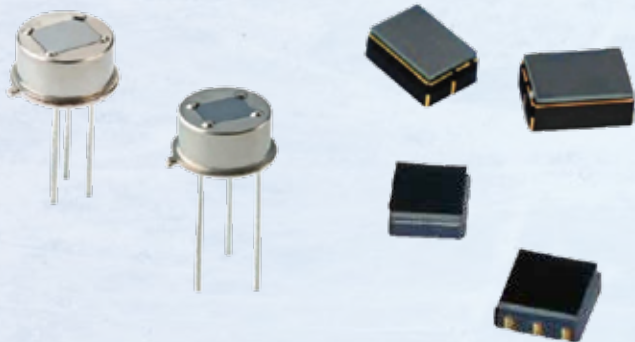
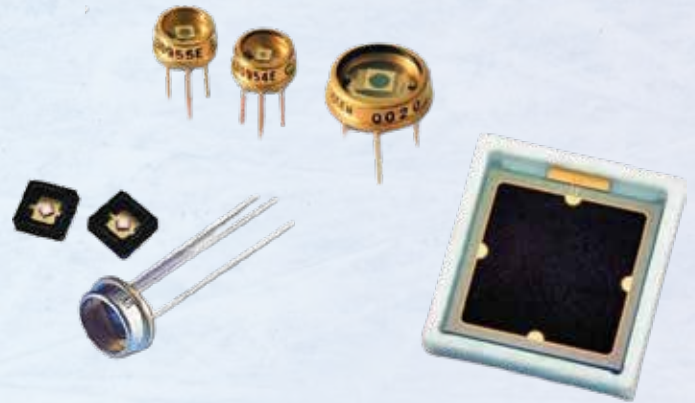


Optical / Photonic Detectors and Sensors

Excelitas offers a comprehensive range of high-performance optical sensors and detectors designed to meet even the most demanding applications. Our photonic sensors are ideal for systems requiring precision, reliability, and fast response times.

Available solutions include:

- Silicon PIN photodiodes
- InGaAs photodiodes
- Avalanche photodiodes (APD)
- Hybrid receivers
- Single Photon Counting Modules (SPCM)



IR and Thermal Sensors

Excelitas provides advanced sensors for thermal detection using infrared (IR) technologies.

We offer a wide range of pyroelectric detectors, thermopiles, and IR sensor modules suitable for numerous sectors and applications, including:

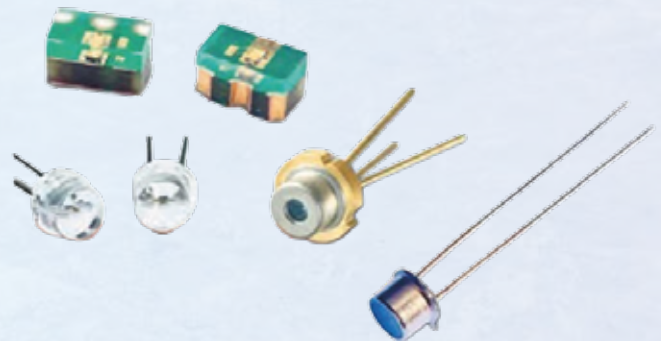
- Motion detection
- Presence monitoring
- Temperature measurement
- Gas detection

Light Sources

Excelitas is a leader in the design and manufacturing of advanced light sources for a wide range of scientific, industrial, and commercial applications. We provide optimized solutions that ensure high performance and long service life.

Our solutions include:

- LED light sources
- Lasers
- Flash lamps
- UVC sources
- Complete and integrated systems



Optics

Excelitas is a reference manufacturer for precision optics designed for advanced applications. We offer a comprehensive portfolio of optical solutions, from single lenses to complex optical systems, to optimize performance across various fields.

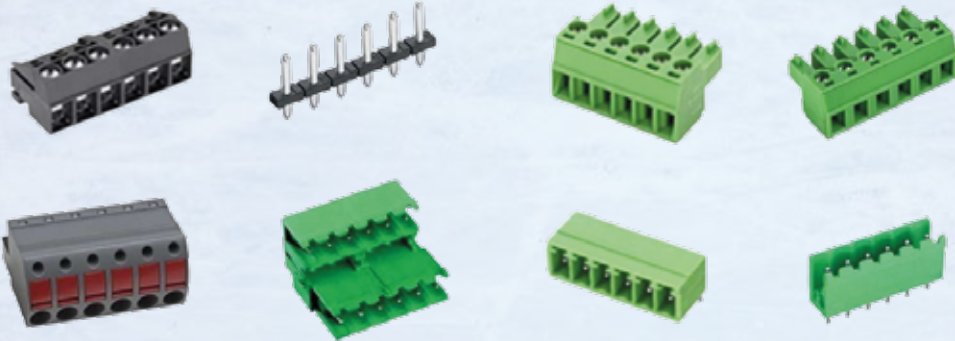
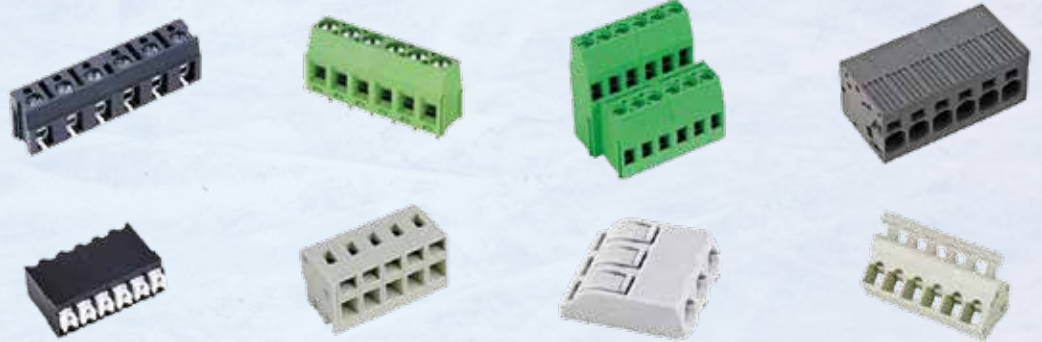
Our optical solutions include:

- Plano-convex and bi-convex lenses
- Aspherical and achromatic lenses
- Flat optics, mirrors, and polarization optics
- Electro-optics and objectives
- Optronic modules



Terminal Blocks

The terminal block range includes THT (Through-Hole Technology) models, THT versions suitable for reflow soldering, and SMD (Surface-Mount Device) terminal blocks.



Connectors

PTR Hartmann connectors are available in modular versions or side-by-side stackable block configurations, with both THT and THT versions designed for reflow soldering.

Test Points

PTR Hartmann test points are essential components across a wide range of industries, including telecommunications, medical technology, aeronautics, aerospace, automotive, and many others. Their versatility also makes them indispensable in applications such as electric vehicle charging systems, PCB connectors, and battery test probes.



Pogo Pins

Pogo pins, also known as spring-loaded connectors, are used wherever it is necessary to charge rechargeable batteries or connect mobile devices such as scanners, card readers, communication devices, and much more. In many cases, they are also used to connect two printed circuit boards (PCBs).

THT and SMD Tact Switches

Available in a wide range of formats, heights, and actuation forces to meet various design requirements. Also available in waterproof versions, they are ideal for industrial and automotive applications requiring reliability, resistance to environmental conditions, and long operational life.



Micro Switches

Available in different shapes and sizes, with or without lever, and designed to operate up to 16A / 250V, ensuring reliability and precise actuation. Also offered in waterproof and long-life versions, they guarantee high performance and durability even in demanding applications and harsh environments.

Metal Push Buttons

Metal push buttons designed to ensure maximum robustness, reliability, and wear resistance. Thanks to the wide range of available sizes, they are suitable for numerous applications in both industrial and automotive sectors, ensuring long-term durability and refined aesthetics even under demanding operating conditions.

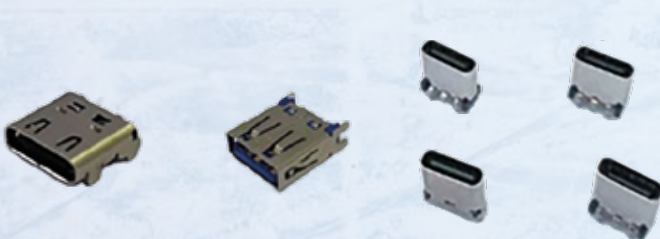
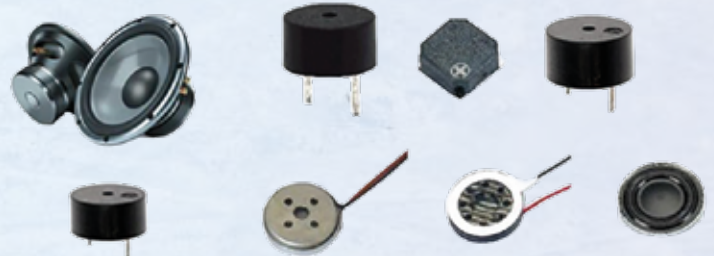


Detector Switches, Slide Switches and Push Switches

Designed to offer versatility and reliability, these switches are suitable for a wide range of applications, from home automation to home appliances. Compact and functional, they ensure precise control, long operational life, and easy integration into different design environments.

Piezo and Magnetic Buzzers, Microphone Capsules, and Mylar Speakers

Solutions designed to deliver reliable performance across a wide range of applications, including alarm systems, consumer electronics, home automation, and intercom systems. They provide high sound quality, precise response, and long service life, ensuring optimal functionality even in demanding operating environments.

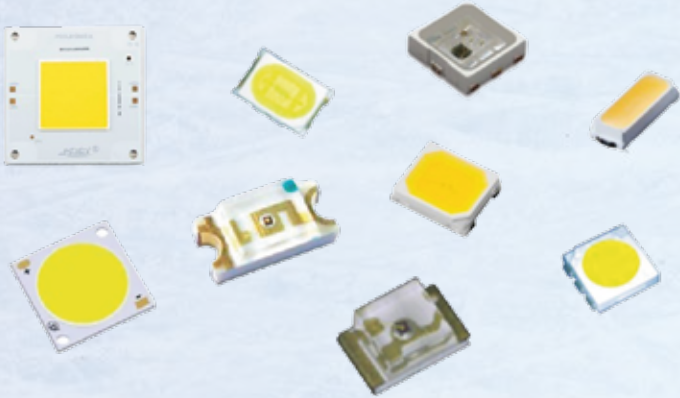


USB Connectors

Designed to ensure reliable connectivity and versatility, these connectors are ideal for applications such as input/output peripherals, data storage, device charging, video transmission, networking and communication systems, as well as automotive applications. They offer high performance, robustness, and compatibility with a wide variety of devices and systems.

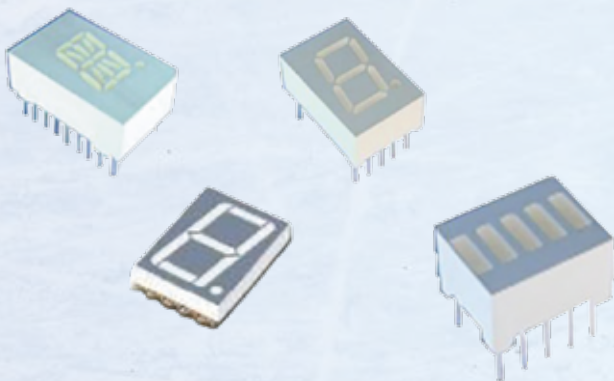
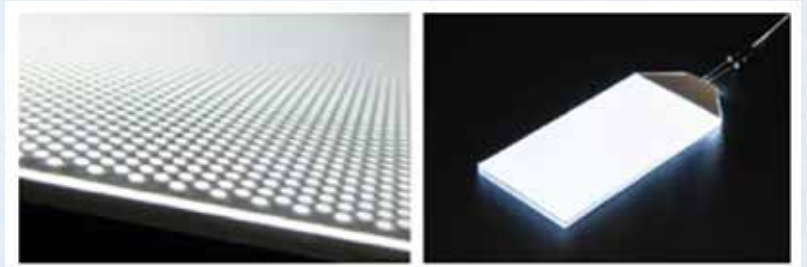
LED: Innovation and Versatility

Ledtech LEDs stand out for their quality and reliability, adapting to a wide range of industries and applications. Wide range of formats, from traditional LEDs to next-generation COB solutions. Superior luminous efficiency with reduced power consumption. Robust designs and advanced materials resistant to weather and environmental conditions. Suitable for both outdoor and indoor applications, ensuring optimal performance in any environment. Customizable wavelengths, supply voltage, and bin codes, including UV and RGB options.



LED Backlight and Panels

Our backlighting solutions combine functionality and style for a wide range of devices and projects. Standard and fully customizable products. Colors, brightness, and graphics designed according to specific customer requirements. Easy installation for maximum convenience. Ideal for vending machines, illuminated signs, and advertising graphics.



LED Displays

Our LED displays represent an excellent choice for numeric and alphanumeric displays. Available in a wide range of standard solutions. Full customization with adjustable colors and brightness and low tooling costs. Ideal for timers, electronic scales, thermostats, coffee machines, and many other applications.

LED Tubes

We are leaders in the design and production of advanced LED tubes, engineered to provide optimal lighting performance, energy efficiency, and long service life even in demanding environments. Thanks to our experience and continuous investment in research and development, we can offer customized solutions for every need. Whether you want to enhance the aesthetics of display units or optimize operational costs, our LED tubes are the ideal solution.



Optoelectronic Components

Optoelectronic components include LEDs mounted on plastic holders in single, double, or triple configurations, with PTH or SMD mounting options, available in vertical or horizontal versions and also in array configurations. Solutions with plastic or metal bezels are available, along with monochrome, bi-color, and RGB variants. The range also includes illuminated rings, M-Fibre solutions, and backlight systems designed to ensure uniform illumination of logos and symbols.



Light Guides

Mentor light guides represent the ideal solution for channeling LED light from the PCB to the product front panel. Manufactured from advanced materials resistant to high temperatures, they are available in various shapes and sizes, including IP68-rated versions for critical environments.



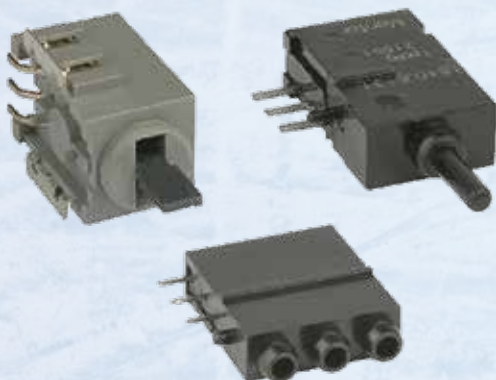
Handles and Knobs

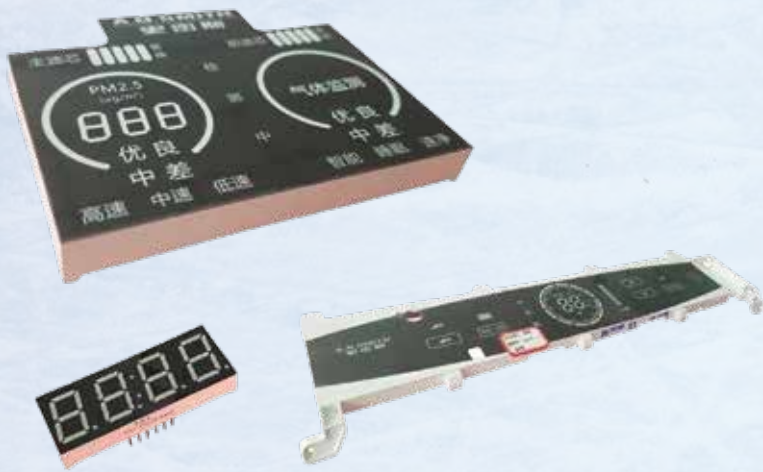
Mentor handles and knobs represent a range of solutions designed for control and handling applications, combining functionality with refined aesthetics. Manufactured in aluminum, steel, ABS, and plastic, handles are available in fixed, folding, or recessed configurations, providing robust solutions for industrial applications as well as more refined designs suitable for interior design environments. They are ideal for opening, closing, pulling, or lifting operations. Knobs, compatible with potentiometers and encoders, stand out for their ergonomic design and ease of use, making them suitable for industrial, professional, and consumer markets. Thanks to the combination of build quality and design attention, these components meet the requirements of the most demanding sectors.



Electromechanical Components

A wide range of electromechanical components designed for precision technical applications. The portfolio includes LEDs on plastic holders, high-performance switches, fuse holders, and test jacks, as well as switch jacks available for both PTH and SMD mounting, ensuring reliability and versatility across various industrial and electronic environments.





LED DISPLAYS

LED displays represent the evolution of the classic 7-segment display, offering maximum flexibility and extensive customization possibilities in every detail. They can be manufactured using LEDs or dice mounted directly on the PCB, combined with a dedicated light guide (REF) and a customized surface mask featuring symbols, icons, graphics, or logos. Capacitive touch buttons, fully customizable as well, can also be integrated. Key Features:

- High brightness with low power consumption
- Full product customization or tailor-made design
- Wide range of graphic and functional customization options
- Possibility to integrate touch keys
- High protection level for demanding applications

ROTARY DISPLAYS

Rotary displays combine LED or TFT display technology with rotary encoders, with or without detents, and can integrate touch functions or switches on the knob. Fully customizable in terms of size, materials, icons, and functionalities, they are ideal for applications requiring function selection or parameter adjustment such as temperature or program settings, with particular attention to aesthetics and design.

Typical applications include coffee machines, temperature control systems, and advanced home appliances.

Key Features:

- Integrated touch keys available
- Circular display and knob design
- Plastic or aluminum materials
- Fully customizable dimensions
- High IP protection level
- Long lifetime and extended operating cycles



LCD AND TFT DISPLAYS

Our LCD and TFT display range offers reliable and high-performance solutions for industrial, automotive, and professional applications. LCD modules provide excellent readability, low power consumption, and high robustness, making them ideal for control devices and human-machine interfaces (HMI). TFT displays ensure high image quality, a wide color range, and excellent visibility even under strong lighting conditions, thanks to advanced technologies and extensive customization options. Available in various sizes, resolutions, and configurations, our displays can be integrated with touch screens, dedicated backlighting, and customized interfaces to meet the specific requirements of each project.



Potentiometers

High-performance solutions for precise position and motion control, available in both linear and rotary versions. Designed to ensure reliability, durability, and long-term stability, they are ideal for industrial applications and advanced automation systems.



Linear and Angular Sensors

Technologically advanced solutions for accurate position and orientation detection, designed to ensure precision, reliability, and measurement stability even in complex operating environments and demanding conditions.

Industrial Joysticks

Ergonomic and highly reliable devices designed to ensure precise and intuitive control of machinery and equipment. Ideal for applications in robotics, material handling, and off-road vehicles.

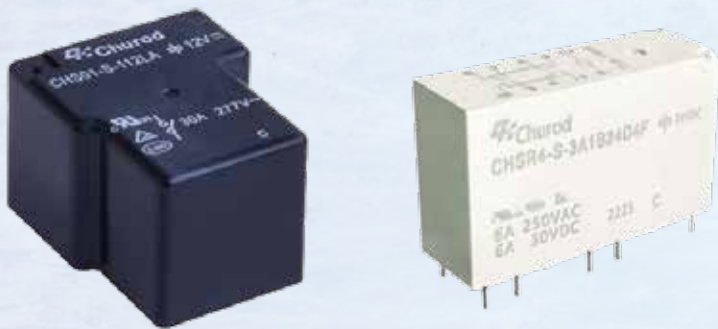
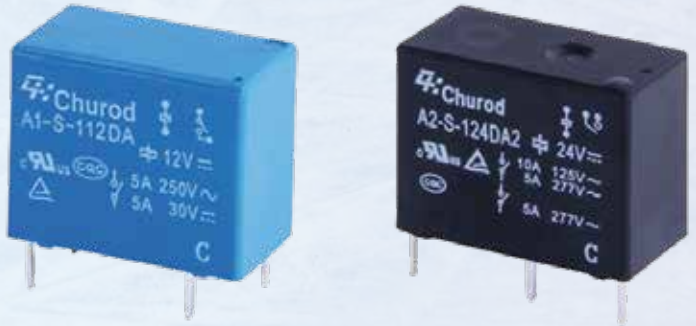


Absolute and Incremental Encoders

Available with both analog and digital interfaces, encoders are offered in incremental and absolute versions, with single-turn or multi-turn configurations, to meet a wide range of application requirements in terms of precision, reliability, and seamless integration into control systems.

Relays for Home Appliances

These are the most commonly used relays in major household appliances such as washing machines, dryers, ovens, and cookers. However, their use is much broader, and they are often found in common industrial applications as well. These relays tend to have standardized sizes and form factors within the relay industry.

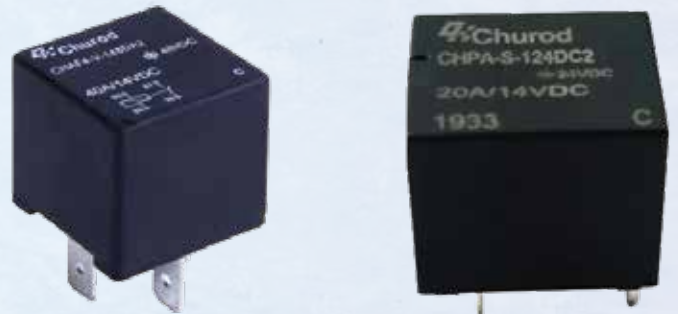


Relays for Industrial Applications

They vary widely in applications, ranging from motor control to lighting and safety circuits. These relays typically feature standard formats and specifications within the industry, but specialized variants designed to suit specific applications or environments are also very common.

Relays for Automotive Applications

These are standard relays used throughout the automotive sector for applications such as fuel pumps, seat and window motors, starter motors, alarm systems, and turn indicators. These relays can be plug-in or PCB-mounted and are generally designed to operate with 12 V or 24 V systems.



Relays for Renewable Energy Applications

Relays and contactors for renewable energy are switching components typically designed for use in applications such as photovoltaic inverters, battery energy storage systems (BESS), electric vehicles (EVs), and EV charging systems. These components can be designed to handle both AC and DC loads, with application voltage ranges from low voltage up to over 1000 V. In general, they are designed to carry current efficiently without switching the load, except under fault conditions.

Handsets

Peitel handsets are professional devices for secure radio communications, combining the highest possible audio and voice quality with a wide range of connection options for external devices and systems.



Microphones

Peitel microphones are professional radio communication devices designed for critical environments. They deliver clear audio with noise reduction, high robustness, and broad compatibility with industrial and safety systems.

Loudspeakers

Peitel Loudspeakers are professional devices for clear and reliable voice communication. They offer robust construction, compact dimensions, and performance optimized for speech. They are compatible with radio and industrial systems, with customization options available.



PTCarPhone

The Peitel PTCarPhone is a professional LTE communication system for vehicles, designed for fixed installation. It integrates telephony, Wi-Fi hotspot, GPS, and telematics functions into a single solution.

Success cases

Angular Sensors for Tractors and Agricultural Machinery

Kyocera angular sensors are advanced devices used to measure and monitor angular position in various mechanical and electronic systems. These sensors are crucial in the agricultural industry, particularly in tractors, where they are used in key applications such as the accelerator pedal, steering axle, and rear hitch lift control.



Potentiometers for Tractor Armrests

CTS Series 282 potentiometers represent an ideal solution for high-precision industrial applications, such as the control of functions integrated into tractor armrests. Thanks to their robust construction and advanced features, they effectively meet the reliability and durability requirements demanded by modern electronic control systems.



LED Lighting

LED lighting project developed in collaboration with Ledtech and LedItaly for the BCC Group.



LED Lighting for Vending Machines

Advanced LED lighting systems implemented in vending machines manufactured by Bianchi Industry.



Railway Communication System

Implementation of advanced communication systems for railway applications using Peitel products.



Encoder with Display for Home Appliances

Long-life rotary encoder with integrated TFT display designed for high-end applications.



Brand Partners

ARKLED

Churod Europe

CLS Your Partner in Smart Solutions.

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