



Electronic Products and Relays

Electronic timers, monitors, interface  
products and power supplies  
The complete range

# ABB offers the most extensive range of electronic timers, monitors, interface products and power supplies

## Source your critical components from one supplier.

Increase the reliability of your process equipment with control devices that provide intelligent signals and adjustment to ensure maximum uptime.

- Electronic timers
- Measuring and monitoring relays
- Interface relays and optocouplers
- Analog signal and data converters
- Logic relays
- Power supplies
- Universal motor controllers

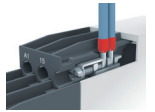
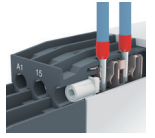
## Ease of selection and installation.

- Comprehensive selection tools and extensive technical documentation for easy specification and use
- A wide variety of product options – from economic to highly sophisticated
- Products designed for easy installation, set-up, commissioning and maintenance
- Common style across the line provides a cleaner panel design



## Reduce total cost.

- Easy connect technology
  - Push-in connections for fast and tool-free wiring
  - Reduces installation time
- Double cage clamp
  - Connects two circuits to the same unit
  - Simplifies wiring
- Direct reading scales for easy and more accurate settings



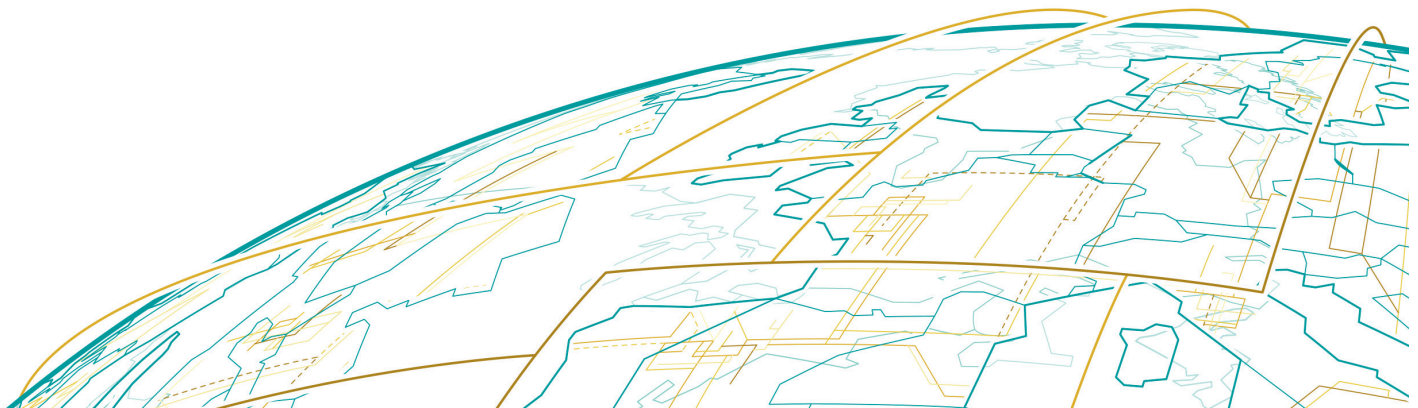
## Access global support.

### Approvals, certifications and marks

Int'l	China	Canada & USA	Europe	Russia, Kazakhstan and Belarus	Australia and New Zealand

ABB products are available in more than 100 countries, giving you the confidence of world-wide sourcing - no matter where you build or operate your equipment.

- Global certifications support your business world wide
- One single partner for all of your support requirements



# Electronic products and relays

## Electronic timers



### Three ranges of electronic timers provide timing functions for all applications.

The CT-E economy series, the narrow CT-D (17.5mm wide) series and the CT-S series offer all types of timing functions, timing ranges, screw or push-in type connections and accessories, all in a DIN rail mounting package.

- Up to 16 timing functions available along with timing ranges from 0 seconds to 300 hours to meet any timing requirements
- Ensure safe and reliable operation in harsh environments -40 to +60°C (-40 to +140°F)
- Designed to meet the needs of global applications regardless of available voltage

### Benefit from easy installation and maintenance with ABB timers.

- UL approved double chamber cage connection clamp screw system connects more wires with less terminals, lowering your cost
- Innovative push-in connection terminals save time, eliminate maintenance and are vibration resistant

## Measuring and monitoring relays



### No matter what measuring or monitoring function is needed, physical or electrical, we can protect your equipment and ensure maximum uptime.

Select from measuring and monitoring relays for motor protection and process monitoring including single-phase, three-phase, insulation resistance, thermistor motor protection, temperature, and liquid level.

Whether you need a single function, cost-efficient, basic solution or a highly sophisticated multi-function unit, we offer three different product families. Choose from the economic CM-E to the universal CM-S to our most powerful CM-N range.

### Built and tested to ensure uninterrupted monitoring no matter what environment you operate in.

- Housing material meets the requirements for the highest flammability class. (UL94 V-0 rated)
- Easy Connect Technology provides excellent vibration resistance with gas tight push-in terminals – the right solution for harsh environments
- Operates reliably in environments from -20 to +60°C (-4 to +140°F)

## Power supplies



**Preferred by engineers for their compact, space saving design and ability to accept almost any voltage input.**

From space saving DIN rail design to wide range of input voltages, ABB's power supplies meet global market requirements.

- Adjustable output voltages enable you to optimize power supply specific to your application.
- Designed to protect your equipment from open-circuit, overload, permanent short-circuits, as well as thermal protection.

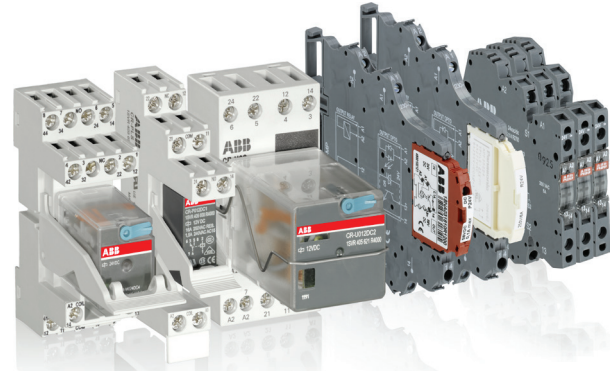
**ABB's power supplies excel at higher temperatures (+70°C / +158°F) offering you up to 50% more power reserve compared to the industry's standard.**

- Integrated power reserve supports your heavy load conditions
- High efficiency up to 93%
- Our extensive technical documentation make it easy for your engineers to select and install the right power supply, ensuring a safe and reliable application

### **Wide assortment of accessories.**

- Pluggable function modules to easily adapt to your application, no additional monitoring needed
- Redundancy units increase supply reliability for critical applications and processes
- Ensure uninterrupted power supply with ABB's CP-B range, an ultra-capacitor buffer that stores energy in case of intermittent power loss

## Interface relays and optocouplers



**ABB's interface relays and optocouplers ensure a reliable signal exchange between process peripherals and control systems.**

From control and production engineering to electrical equipment and material processing machines, our relays ensure reliable signal switching, amplification, multiplying and provide electrical isolation for your sensitive PLC electronics.

We offer a wide variety of pluggable interface relays, with standard or logic sockets, that can be used for switching AC or DC loads.

Suitable for extreme environments, ABB's interface relays consist of a wide range of coil voltages and selection of the following plug-in functions: reverse polarity protection, LED indication, RC elements, overvoltage protection and multifunction time module.

**Designed for easy installation, space savings and low maintenance.**

- Screw and spring clamp terminal – choose a connection type to meet your needs
- Compact design (6 – 12mm) saves space
- Environmentally-friendly thanks to cadmium and lead-free material selection and production

ABB's optocouplers make installation easy and have a long life-cycle because of no moving parts, very high electrical life and high frequency switching (in micro second ranges).

## Logic relays



**ABB's logic relays are ideally suited for small industrial applications saving time and cost as well as eliminating error sources.**

- Compact design reduces panel space
- Comprehensive functions of ABB's logic relays will save you cost and make installation easier as they can replace traditionally wired circuits
- Secure operation with program transfer via external memory card
- Maintenance free - no external back-up needed and all values are saved in the relay

## Signal converters



**ABB's universal signal converters amplify, convert, isolate and measure any type of signals to ensure safe and reliable plant processes.**

Whenever you need 3-way electrical isolation, select an ABB signal converter to protect your process and automation applications from over voltages.

- Universally configurable devices and single-function devices
- Adjustment and operating elements on the front side
- Safe operation by electrical 3-way isolation
- Easy configuration
- Precise adjustments and world class accuracy

## Universal motor controllers



**Maximize system uptime through early detection of motor problems such as overload, short circuit or phase failure.**

With the Universal Motor Controller, ABB offers the optimum solution for combining motor protection and motor management in a single module, while offering diagnostic and communications capabilities.

**Simplify planning, design and installation with one compact device.**

- Offers advanced protection by monitoring for phase loss, over/under voltage, ground fault detection, etc.
- Controls motor functions such as starts, stops, reverts, load shedding and restarts with multiple inputs and outputs
- Communicates through Fieldbus interface
- Easy monitoring and diagnosis of motor functions
- Programmable for a wide variety of applications

# Contact us

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