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New ABB Sentry safety relay range uses innovative design to simplify installation

A brand new range of powerful and easy to use safety relays from ABB for all common types of safety applications

ABB is announcing Sentry: a complete new range of safety relays with unique features that make them simple, precise and competitive. Integrated LED displays and accurate timer functions make ABB Sentry safety relays the logical choice for both machine builders and wholesalers.

ABB's Sentry series of safety relays covers all types of safety applications. Basic models provide reliable supervision of simpler safety functions, while universal models provide advanced features and high flexibility. Sentry will be commercially available in 2017.

Elias Agrell, Global Product Manager for Safety Products, says: "Sentry is a completely new range of safety relays that demonstrates how ABB brings quality and innovation to basic safety products. We have developed a comprehensive range of products that make things simpler when it matters most: the new Sentry relays are simpler to install, make troubleshooting quicker and minimize unnecessary downtime."

The ABB Sentry range consists of four main types of safety relays:

- Sentry BSR are basic models for e.g. emergency stop buttons and easy expansion of safety outputs
- Sentry SSR are single function models for e.g. two-hand devices, door switches and OSSD signals
- Sentry TSR are safety timers with the highest accuracy available
- Sentry USR are ABB's universal models with integrated LED displays and preset configurations

ABB engineers, designers and ergonomics experts working on the new generation explored every opportunity to improve functionality and usability. Agrell explains: "We have applied quality design and innovative engineering to every detail of the working life of the ABB Sentry safety relays, in order to help improve productivity for our customers."

Close attention was paid to simplify installation and minimize unnecessary downtime. Users can select manual or automatic reset with a simple switch on the front of the relay. The introduction of a unique multi-reset feature also makes it possible to use one single reset button for up to 10 Sentry safety relays.

Sentry's detachable terminal blocks speed up connection and replacement times, and with powerful outputs of up to 6A, intermediary contactors can often be omitted.

The addition of three-color LEDs and a display provide an instant, visual indication of the relay's status that makes troubleshooting faster and simpler. Sentry models with the integrated display provide a simple way to choose between preset configurations and also gives useful fault information (such as a log of the last 10 errors) that further improves troubleshooting and minimizes downtime.

The new timer functions are adjustable from 0 to 999 seconds with an accuracy of $\pm 1\%$, which is the highest in the industry. ABB expects the additional precision to play a significant role in cutting unnecessary downtime.

"Logistics also play an important part in a product's working life," says Elias Agrell. "Because ABB Sentry safety relays enable a single universal model to be used for all the most common applications, stock levels can be optimized effectively, freeing up valuable warehouse space, and supporting faster deliveries to customers."



Sentry safety relays

ABB (ABBN: SIX Swiss Ex) is a pioneering technology leader in electrification products, robotics and motion, industrial automation and power grids, serving customers in utilities, industry and transport & infrastructure globally. Continuing more than a 125-year history of innovation, ABB today is writing the future of industrial digitalization and driving the Energy and Fourth Industrial Revolutions. ABB operates in more than 100 countries with about 135,000 employees. www.abb.com

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