SAFETY PRODUCTS

Safety relay
Sentry

The Sentry safety relays are powerful and easy to use safety relays, suitable for all common types of safety applications.

The Sentry series contains basic models for simple applications and easy output expansion, as well as highly flexible models with extremely accurate timer functions.

Sentry safety relays are used in both simple and more advanced safety solutions when safety devices need to be monitored according to the requirements of functional safety standards.

Continuous operation

LEDs and display
3-color LEDs allow for more status messages and simplify troubleshooting. Models with display offer preset configurations and extensive fault information.

Advanced timer functions
Timer functions with an accuracy of ± 1% minimize unnecessary downtime.

Multi-reset
The multi-reset function enables reset of up to 10 Sentry safety relays using just one reset button.

Speed up your projects

Twice as fast to install
Push-in terminals are twice as fast compared to regular spring loaded connectors.

Handles ferruled and rigid cables
Both ferruled and rigid cables are easy to just push into the push-in terminals by hand.

No tools required for installation
No tools are required for connecting a cable in the push-in terminals. Just use the cable to push into the opening.

Easy to install

Detachable terminal blocks
Detachable terminal blocks speed up connection and replacement.

Switch for reset selection
Manual or automatic reset easily selectable by switch.

Powerful outputs
Powerful outputs allow to drive larger contactors and simplify installation by saving the use of an intermediary contactor.

Ordering details

Expansion of safety controller outputs	1 channel	2 channels with equivalent contacts	2 channels with antivalent contacts	OSSD outputs / PNP outputs	Contact mats, bumpers and safety edges c)	Two-hand devices	Manual reset (all models have auto reset)	Start/Test	3 NO + 1 NC	4 NO	2 NO + 2 delayed/delayable NO	4 NO + 1 NC	Off-delay 0.5 s	Off-delay 1.5 s	Advanced timer functions 0 – 999 s d)	Configurable with display	85-265 VAC / 120-375 VDC	+24 VDC	Type P=push-in terminals	Order code
a)	●	b)						●	●									●	BSR10 / BSR10P	2TLA010040R0000 / 2TLA010040R0001
a)	●	b)						●		●								●	BSR11 / BSR11P	2TLA010040R0200 / 2TLA010040R0201
a)											●							●	BSR23 e) / BSR23P e)	2TLA010041R0600 / 2TLA010041R0601
●	●	●		●			●		●									●	SSR10 / SSR10P	2TLA010050R0000 / 2TLA010050R0001
●		●					●		●								●		SSR10M / SSR10MP	2TLA010050R0100 / 2TLA010050R0101
			●			●			●									●	SSR20 / SSR20P	2TLA010051R0000 / 2TLA010051R0001
			●			●			●								●		SSR20M / SSR20MP	2TLA010051R0100 / 2TLA010051R0101
	●	●	●				●				●		●					●	SSR32 / SSR32P	2TLA010052R0400 / 2TLA010052R0401
	●	●	●				●				●			●				●	SSR42 / SSR42P	2TLA010053R0400 / 2TLA010053R0401
●	●	●	●				●		●				●	●	●	●		●	TSR10 / TSR10P	2TLA010060R0000 / 2TLA010060R0001
●	●	●	●				●		●				●	●				●	TSR20 / TSR20P	2TLA010061R0000 / 2TLA010061R0001
●		●					●		●				●	●			●		TSR20M / TSR20MP	2TLA010061R0100 / 2TLA010061R0101
	●	●	●	●	●	●	●		●				●	●	●	●		●	USR10 / USR10P	2TLA010070R0000 / 2TLA010070R0001
	●	●	●	●	●	●	●				●		●	●	●	●		●	USR22 / USR22P	2TLA010070R0400 / 2TLA010070R0401

a) These models can also be used for expansion of Pluto safe transistor outputs (-24 VDC)
b) No monitoring of two-channel fault, i.e. max Category 3 without fault exclusion.
c) The safety relay detects a short-circuit, not a change in resistance.
d) Off-delay, On-delay, Time bypass or Time reset.
e) BSR23 must be monitored by another device in order to reach higher than Category 1/PL c according to EN ISO 13849-1, for example a safety relay, a safety PLC or an Orion light guard (EDM function).

BSR10

SSR32

USR10

Push-in terminal

Screw terminal

Push-in terminals
All models of Sentry are available with push-in terminals as an alternative to standard screw terminals. The push-in terminals simplify and speed up the installation, while ensuring a secure and maintenance free connection even after transportation or in installations with vibrations.