********Coupling relays for safety-related activation**

In recent years, safety-related activation has become increasingly important in the field of process technology.

As a result, with PSR-PC50, Phoenix Contact offers a coupling relay that has been specially developed for this area and that can be used according to SIL 3.

The coupling relay was specially designed for failsafe controllers in the field of process technology. As such, all requirements for use in applications up to SIL 3 are fulfilled, according to IEC 61508. Internally, the device has six contacts that are switched in parallel as well as in series. In this way, the safety required is taken into account, as well as the necessary availability.

Continuous diagnosis poses a challenge for planners and planning engineers. Generally speaking, the controller diagnosis ends at the coupling module used. Often this is not sufficient for many users. To this end, the line/load monitoring function of the PSR-PC50 relay enables seamless diagnostics from the controller to the actuator. Open circuits as well as short circuits in the on-load voltage supply and diagnostic supply voltage are monitored. If an error occurs during normal operation, in all established safety systems it can be reported via the existing control line back to the corresponding digital output. In this way, the need for additional installation time and other digital inputs required for actuator read-back is eliminated.

**ENDS**

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