



SCR Safety Relais

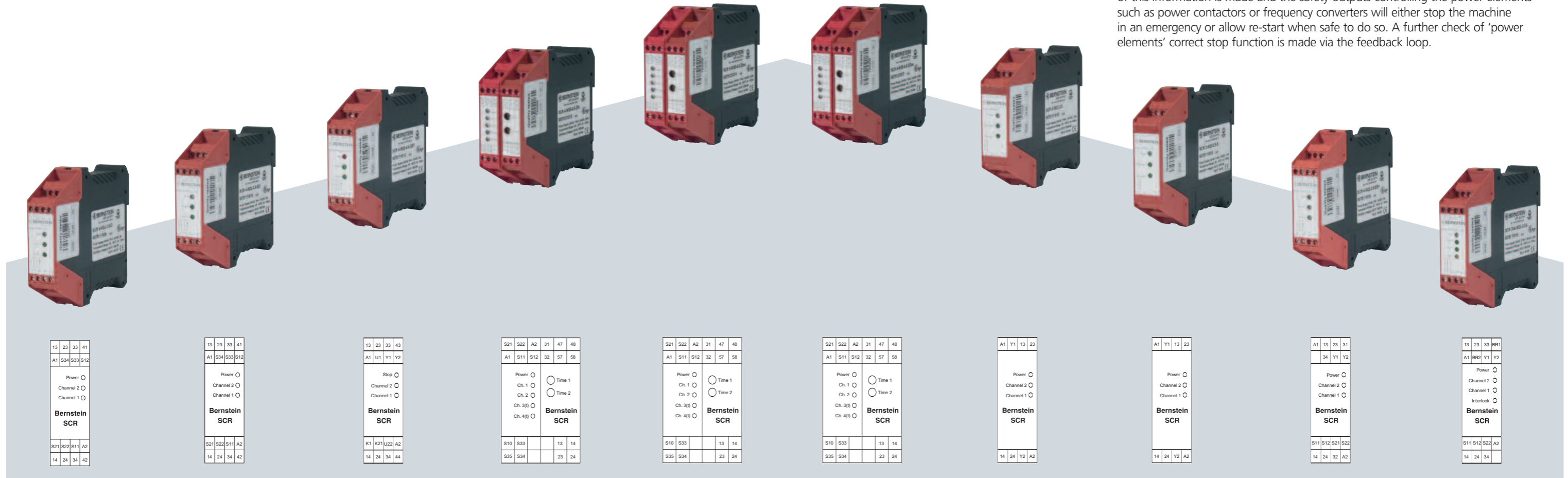
From Signalling to Evaluation –
Responsible Solutions for Safety Applications

The Rational Solution: Bernstein safety relays for all applications

Bernstein AG offers a complete range of products to suit your particular application, from the safety switch to the safety relay. Our SCR safety relays (safety gate monitoring devices) are designed to reliably monitor input signals, e. g. those generated by Bernstein limit switches, safety-switches, -interlocking switches, -rope pull switches, -sensors or two-hand controls.

Bernstein SCR relays are housed in slim-line DIN rail housings, but despite their compact dimensions they have a huge range of applications right through to control category 4 in accordance with EN 945-1.

As defined by this standard, the SCR relays monitor the correct position and reliable operation of inputs from the safety sensors or safety switch contacts. Evaluation of this information is made and the safety outputs controlling the power elements such as power contactors or frequency converters will either stop the machine in an emergency or allow re-start when safe to do so. A further check of 'power elements' correct stop function is made via the feedback loop.



Des.: SCR 4-W22-3.5-D	SCR 4-W22-3.5-SD	SCR 4-W22-4.6-DXT	SCR 4-W35-4.6-Dta	SCR 4-W35-4.6-Dtau	SCR 4-W35-4.6-Dton	SCR 2-W22-2.5	SCR 2-W22-2.5-S	SCR 4-W22-2.6-D2H	SCR ON4-W22-3.6-S
Art. Nr.: 607.5111.009	607.5111.010	607.5111.012	607.5121.013	607.5121.014	607.5121.017	607.5111.015	607.5111.016	607.5111.018	607.5111.019

- EMERGENCY STOP relay/safety gate monitors
- Up to Control Category 4
- 3 NO safety outputs (enabling paths)
- 1 NC auxiliary output (signal output)
- No start button monitoring
- Cross-wire monitoring
- LED display for output status and mains supply
- 24 V AC / DC (electronic fuse)
- Dimensions (WxHxD) 22,5x114,5x99 mm
- CE, TÜV, UL, C-UL

- EMERGENCY STOP relay/safety gate monitors
- Up to Control Category 4
- 3 NO safety outputs (enabling paths)
- 1 NC auxiliary output (signal output)
- Start button monitoring
- Cross-wire monitoring
- LED display for output status and mains supply
- 24 V AC / DC (electronic fuse)
- Dimensions (WxHxD) 22,5x114,5x99 mm
- CE, TÜV, UL, C-UL

- Expansion module for safety relays conforming to VDE 0113
- Up to Control Category 4
- 4 NO safety outputs (enabling paths)
- 1 NC auxiliary output (signal output)
- Cross-wire monitoring
- LED display for output status and mains supply
- 24 V AC / DC (electronic fuse)
- Dimensions (WxHxD) 22,5x114,5x99 mm
- CE, TÜV, UL, C-UL

- EMERGENCY STOP relay/safety gate monitors with adjustable time delay-off safety outputs
- Up to Control Category 4
- Simultaneous (≤ 3 s) operation of inputs required
- 2 NO safety outputs (enabling paths)
- 2 NO timed delay off safety outputs (enabling paths)
- 1 NC auxiliary output (signal output)
- Timer delay range 0.05 s - 600 s adjustable in 64 stages
- Automatic or manual re-start
- Cross-wire monitoring
- LED display for output status
- 24 V AC / DC (electronic fuse)
- Dimensions (WxHxD) 35x114,5x99 mm
- CE, TÜV, UL, C-UL

- EMERGENCY STOP relay/safety gate monitors with adjustable time delay-off safety outputs
- Up to Control Category 4
- No simultaneous operation of inputs required
- 2 NO safety outputs (enabling paths)
- 2 NO timed delay-off safety outputs (enabling paths)
- 1 NC auxiliary output (signal output)
- Timer delay range 0.05 s - 600 s adjustable in 64 stages
- Automatic or manual re-start
- Cross-wire monitoring
- LED display for output status
- 24 V AC / DC (electronic fuse)
- Dimensions (WxHxD) 35x114,5x99 mm
- CE, TÜV, UL, C-UL

- EMERGENCY STOP relay/safety gate monitors with adjustable time delay-off safety outputs
- Up to Control Category 4
- No simultaneous operations of inputs required
- 2 NO safety outputs (enabling paths)
- 2 NO timed delay-on safety outputs (enabling paths)
- 1 NC auxiliary output (signal output)
- Timer delay range 0.05s - 600s adjustable in 64 stages
- Automatic or manual re-start
- Cross-wire monitoring
- LED display for output status
- 24 V AC / DC (electronic fuse).
- Dimensions (WxHxD) 35x114,5x99 mm
- CE, (TÜV, UL, C-UL pending)

- EMERGENCY STOP relay/safety gate monitors
- Up to Control Category 2 or 3 (depending on mode of application)
- 2 NO safety outputs (enabling paths)
- No start button monitoring
- LED display for output status and mains supply
- 24 V AC / DC (electronic fuse)
- Dimensions (WxHxD) 22,5x114,5x99 mm
- CE, (TÜV, UL, C-UL pending)

- EMERGENCY STOP relay/safety gate monitors
- Up to Control Category 2 or 3 (depending on of application)
- 2 NO safety outputs (enabling paths)
- Start button monitoring
- LED display for output status and mains supply
- 24 V AC / DC (electronic fuse).
- Dimensions (WxHxD) 22,5x114,5x99 mm
- CE, (TÜV, UL, C-UL pending)

- Two-hand control unit for Type I-III c in accordance with ZH1 / 456 and DIN EN 574
- Up to Control Category 4
- Synchronisation time: 0.5s
- 2 NO safety outputs (enabling paths)
- 1 NC auxiliary output (signal output)
- LED display for output status and mains supply
- 24 V AC / DC (electronic fuse)
- Dimensions (WxHxD) 22,5x114,5x99 mm
- CE, TÜV, UL, C-UL

- Safety emergency stop relay for safety light barriers / curtains
- Up to Control Category 4
- 3 NO safety outputs (enabling paths)
- Monitored start by selectable external jumper lead
- LED display for output status and mains supply
- 24 V AC / DC (electronic fuse)
- No cross-short safety
- Dimensions (WxHxD) 22,5x114,5x99 mm
- CE, TÜV, UL, C-UL

Safety switching devices from Bernstein

Limit switches



- Metal and plastic housings, with forced disconnect of NC contact

Safety switches



- Slim-line plastic housings, with separate actuator

Safety interlocking switches



- Slim-line plastic housings with separate actuator, spring or magnetic locking

Safety rope pull switches



- Insulated plastic housings



- Standard plastic housings, with separate actuator



- Metal housings with separate actuator, spring or magnetic locking

Emergency Stop buttons



- With twist or key reset



- Robust metal housings, with separate actuator

Safety sensors



- Slim-line plastic housings, with integrated hinged actuation



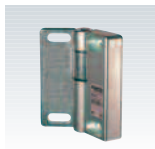
- Safety light curtains multi-beam systems



- Slim-line plastic housings, with integrated actuation



- Safety transponder systems



- Hinge switch, metal housing with integrated actuation

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