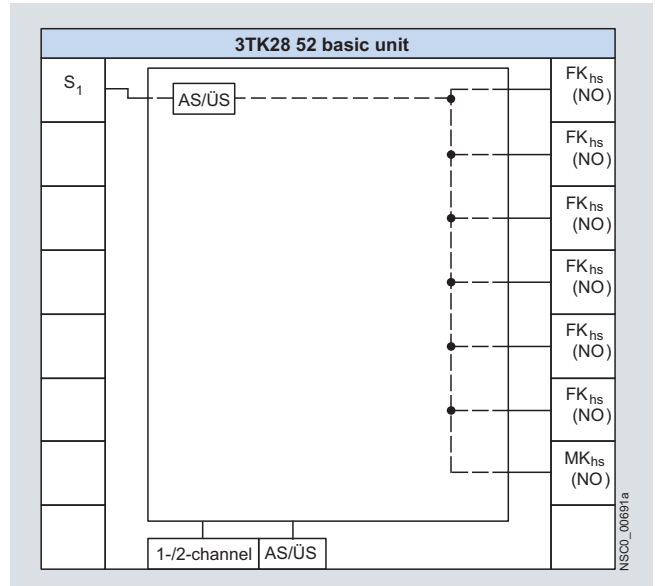
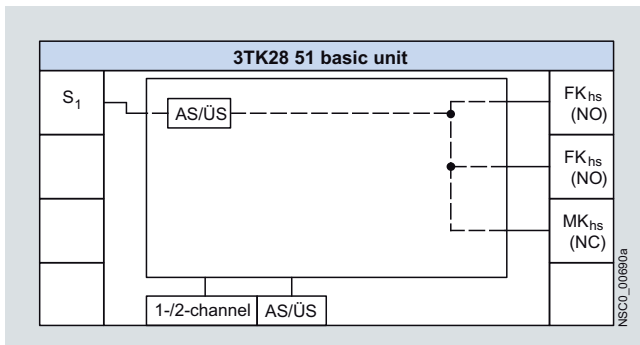
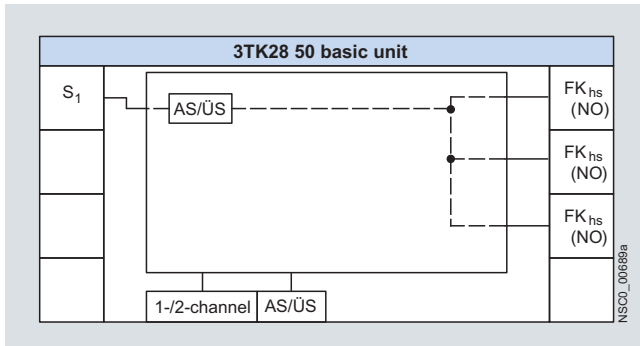


Function

Basic units

3TK28 50 to 3TK28 52

The devices 3TK28 50 to 3TK28 52 each have one sensor input and a varying number of contactor relay enabling circuits and signaling outputs. If the signal is no longer applied to the sensor input, the enabling circuits are disconnected immediately.



Legend

Sensor interface

S_x: Sensor input

Safety logic

AS/ÜS: Automatic or monitored start depending on the parameterization

Parameters

1-/2-channel: One-channel / two-channel sensor connection

AS/ÜS: Automatic or monitored start depending on the parameterization

Actuator interface

FK_{hs}: Enabling circuit, contactor relay (floating)

MK_{hs}: Signaling circuit, contactor relay (floating)

NO: NO contact

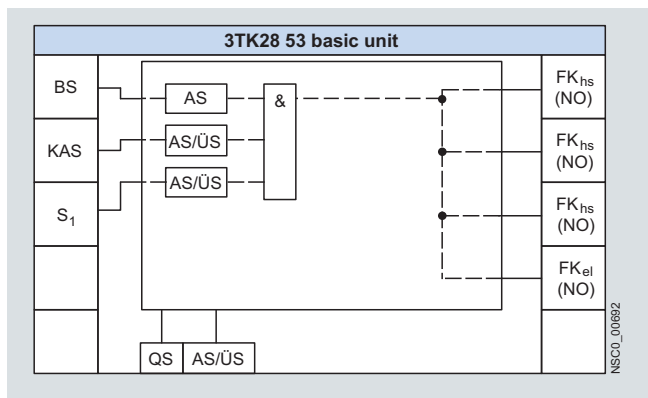
NC: NC contact

3TK28 Safety Relays

Basic units

3TK28 53

The 3TK28 53 has one sensor input and one input for normal switching duty and one cascading input. On the output side is a varying number of solid-state enabling circuits or contactor relay enabling circuits. If the signal is no longer applied to one of the inputs, the enabling circuits are isolated immediately. Autostart or monitored start can be selected in the parameterization.



Legend

Sensor interface


- S_x: Sensor input
- KAS/BS: Cascading input or normal switching duty. Normal switching duty: Connection of a PLC output for example. The enabling circuits and hence the connected loads can then be operated by the machine control. The safety function is on a higher level.

Safety logic

- AS: Automatic start. Device starts automatically once the enabling conditions are fulfilled. If a START button is integrated in the feedback circuit, a manual start is also possible (up to Category 3 according to EN 954-1).
- AS/ÜS: Automatic or monitored start depending on the parameterization

Parameters

- QS: With or without crossover monitoring
- AS/ÜS: Automatic or monitored start depending on the parameterization

-  Time delay, OFF-delay

Actuator interface

- FK_{el}: Enabling circuit, solid-state (non-floating)
- FK_{hs}: Enabling circuit, contactor relay (floating)
- MK_{hs}: Signaling circuit, contactor relay (floating)
- NO: NO contact
- NO_{tv}: NO contact, time-delayed
- NC: NC contact

With contactor relay enabling circuits

Expansion units

3TK28 56 and 3TK28 57

The 3TK28 56 and 3TK28 57 devices each have one one input for normal switching duty and one cascading input. On the output side is a varying number number of solid-state enabling circuits or contactor relay enabling circuits and signaling outputs. If the signal is no longer applied to one of the inputs, the enabling circuits are isolated immediately or according to the set delay time.

