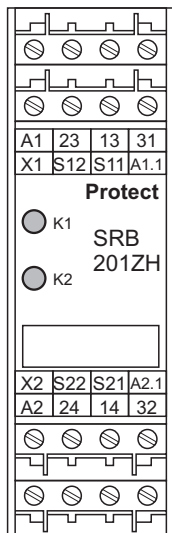


PROTECT

SRB 201ZH

Two-hand relay module

- ☞ plug-in terminals
- ☞ 2-channel triggering
- ☞ 1 floating signalling NC-output
- ☞ 22,5 mm housing
- ☞ LED-indicator lights (green) for relays K1, K2



in preparation



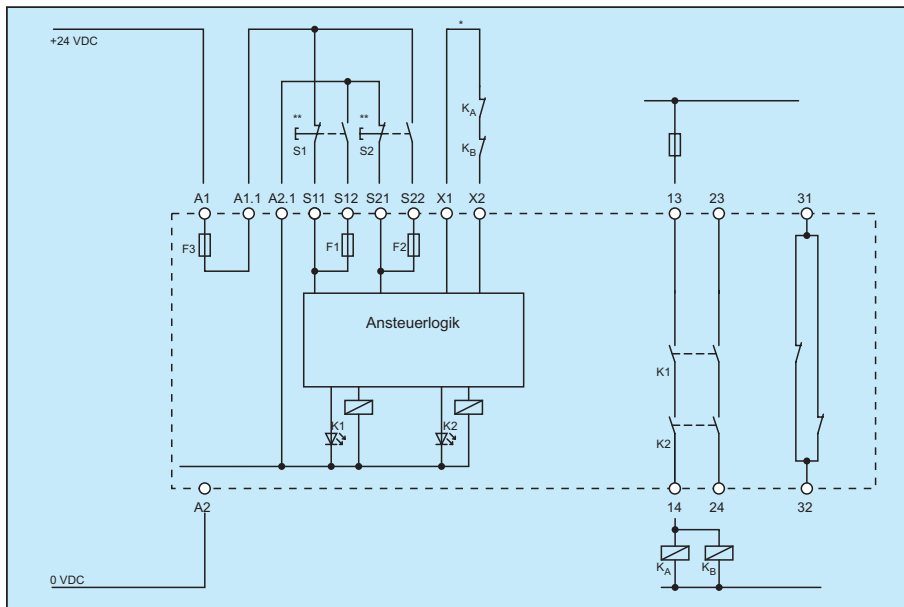
in preparation



in preparation

| Type | Enabling outputs | Power supply | Order no. |
|-----------|------------------|--------------|-----------|
| SRB 201ZH | 2NO / 1NC | 24 VDC | 6100686 |

PROTECT SRB 201ZH



Power level: Dual-channel control. Suitable for contact amplification or contact multiplication by means of relays or contactors with positively driven contacts.

* Feedback loop (if the feedback loop is not required it can be replaced by a bridge).

** The NC contact of the buttons S1 and S2 must have opened before the NO contact closes. No overlapping contacts since otherwise the fuses F1 and F2 would trigger.

Technical data

| | |
|---|---|
| Operating voltage | 24VDC -15%/+20%, residual ripple max. 10% |
| Power consumption | max. 1,2 W |
| Fuse of operating voltage | internal electronic fuse F1,F2, tripping current > 0,2 A, internal electronic fuse F3, tripping current > 0,6 A, |
| Switching capacity (enabling contacts) | 230 VAC, 6A ohmic (inductive with suitable suppressor circuit) |
| Fuse of the enabling contacts | 6A slow-blowing |
| Switching capacity (auxiliary contacts) | 24 VDC, 2A |
| Fuse of the auxiliary contacts | 2A slow-blowing |
| Utilization categories | AC 15: 230 VAC, 6A DC 13: 24 VDC, 6A EN 60 947-5-1 |
| Pickup delay | ≤ 50 ms |
| Response time | ≤ 30 ms |
| Kontaktwerkstoff/Kontakte | AgSnO, self-cleaning, positively driven |
| Contact material/contacts | max. 100 mOhm in new state |
| Air clearance and creepage distance | DIN VDE 0110-1 (04.97), 4 kV/2 |
| Cable connections | Plug in self-lifting screw terminals min. 0,2 qmm, max. 2,5 qmm |
| Dimensions, Weight | H/W/D 100 mm / 22,5 mm / 121 mm; 200 g |
| Ambient operating temperature | -25 °C ...+ 45 °C (derating curve upon request) |
| Mechanical life | 10 ⁷ switching cycles |
| Terminal markings | DIN EN 50 005 / DIN 50 013 |

PROTECT

SRB 201ZH

Start / sensor configuration

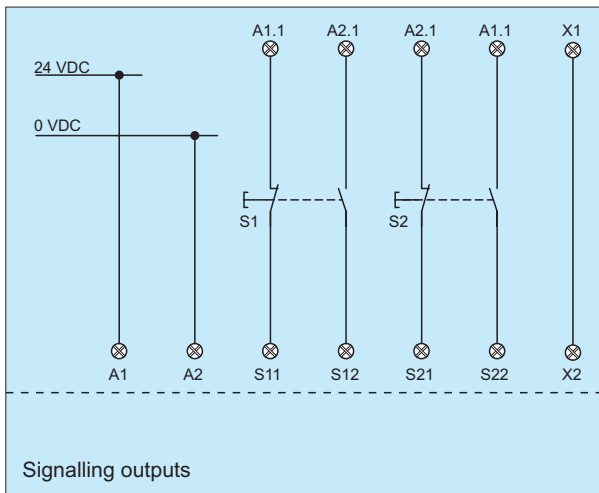
Two-hand circuit to DIN EN 574 und EN 60 204-1 (internal supply)

The terminals A1 (+24 VDC) and A2 (0 VDC) are used here to feed the current sourcing sensors.

Malfunctions of every button contact as well as earth and cross shorts **are detected**.

Feedback loop:

The safety-related function of external positively driven contactors is monitored by series circuit of the NC contacts with the terminals X1 and X2. In release state this circuit must be closed.



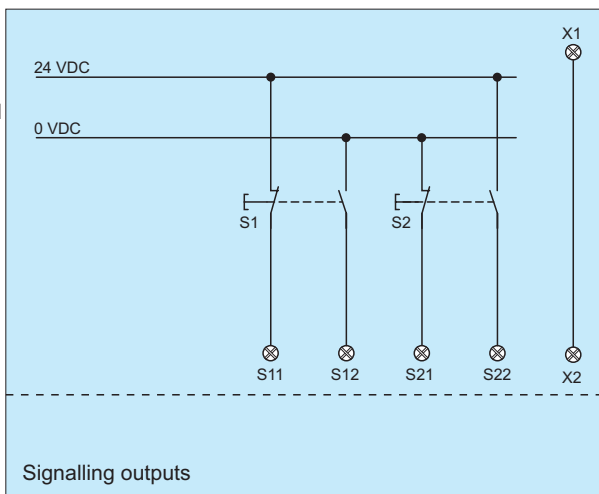
Two-hand circuit to DIN EN 574 und EN 60 204-1 (external supply)

The supply voltage of the device is fed by the actuators of the two-hand control.

Malfunctions of every button contact as well as earth and cross shorts **are detected**.

Feedback loop:

The safety-related function of external positively driven contactors is monitored by series circuit of the NC contacts with the terminals X1 and X2. In release state this circuit must be closed.

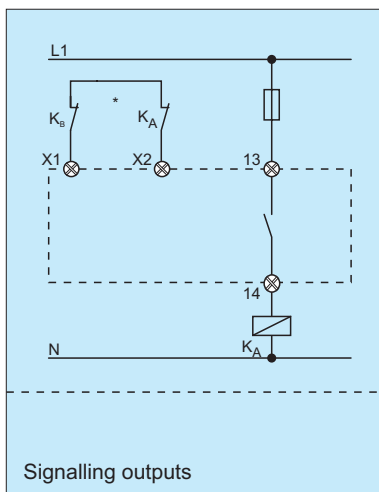


Actuator configuration

Single channel control

Suitable for contact amplification or contact multiplication by means of contactors with positively driven contacts.

If the feedback loop (X1 - X2) is not required it can be replaced by a bridge.

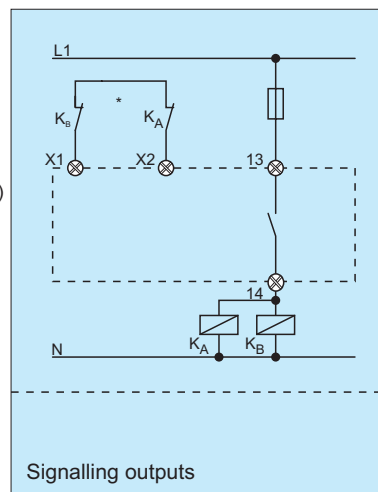


* Feedback loop

Dual-channel control

Suitable for contact amplification or contact multiplication by means of relay or contactors with positively driven contacts.

If the feedback loop (X1 - X2) is not required it can be replaced by a bridge.

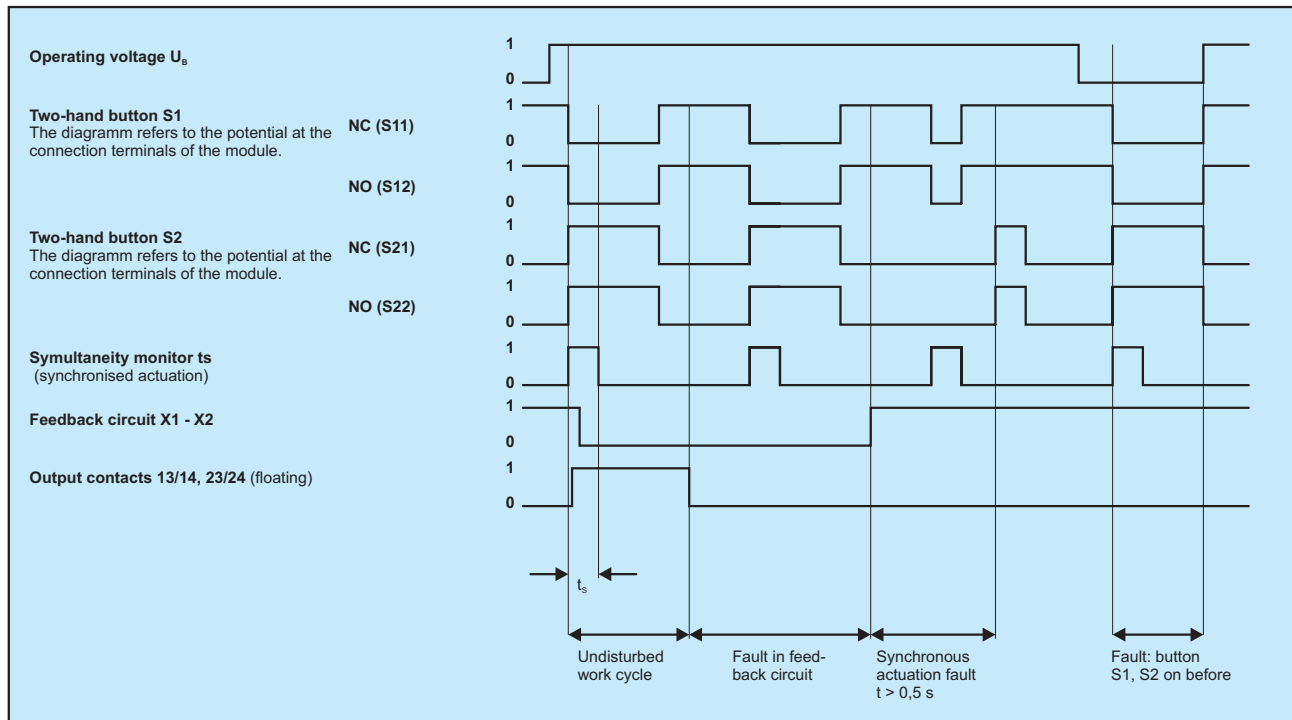


* Feedback loop

PROTECT

SRB 201ZH

Time chart



Terminal description

Voltages:

A1 => +24 VDC
A2 => 0 VDC

Inputs:

A1.1/S11 => Input 1. Actuator (NC contact)
A2.1/S12 => Input 1. Actuator (NC contact)
A1.1/S22 => Input 2. Actuator (NC contact)
A2.1/S21 => Input 2. Actuator (NC contact)

Outputs:

13/14 => First safety enabling output (STOP 0)
23/24 => Second safety enabling output (STOP 0)
31/32 => Auxiliary NC contact (floating)

Start:

X1/X2 => Feedback loop