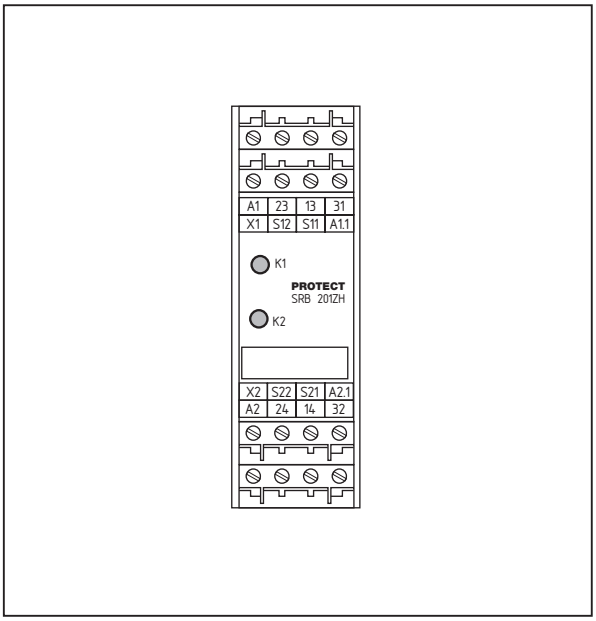
3.1 SRB 201ZH



Dimensions

- Two-hand module to DIN EN 574 (1997) type III C
- Plug-in terminals
- 2 safety enabling outputs
- 1 feedback output with NC function (floating contact)
- Electronic fuse
- Installed width: 22.5 mm
- Green LED displays for relays K1 and K2

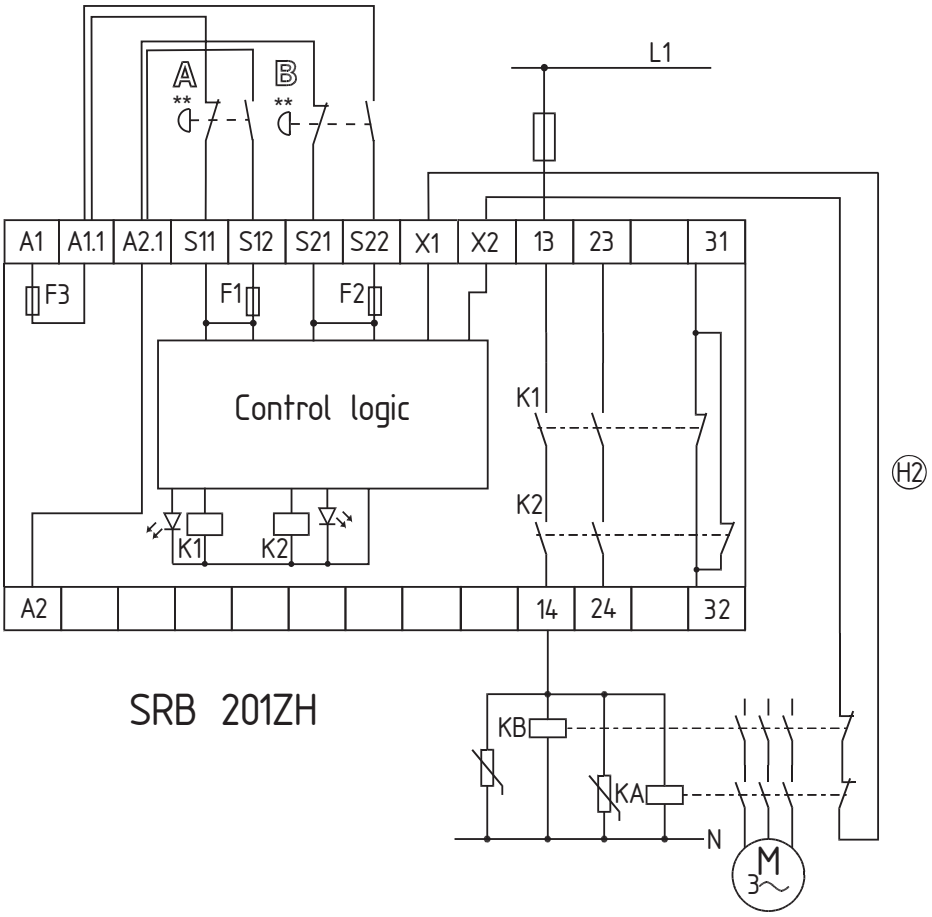
Dimensions 22.5 x 100 x 121 mm

Type designation	Operating voltage	**24 VDC**
	Enabling paths 2 NO/1 NC	**SRB 201ZH**

Test symbol (in preparation)

FRG	USA	CAN

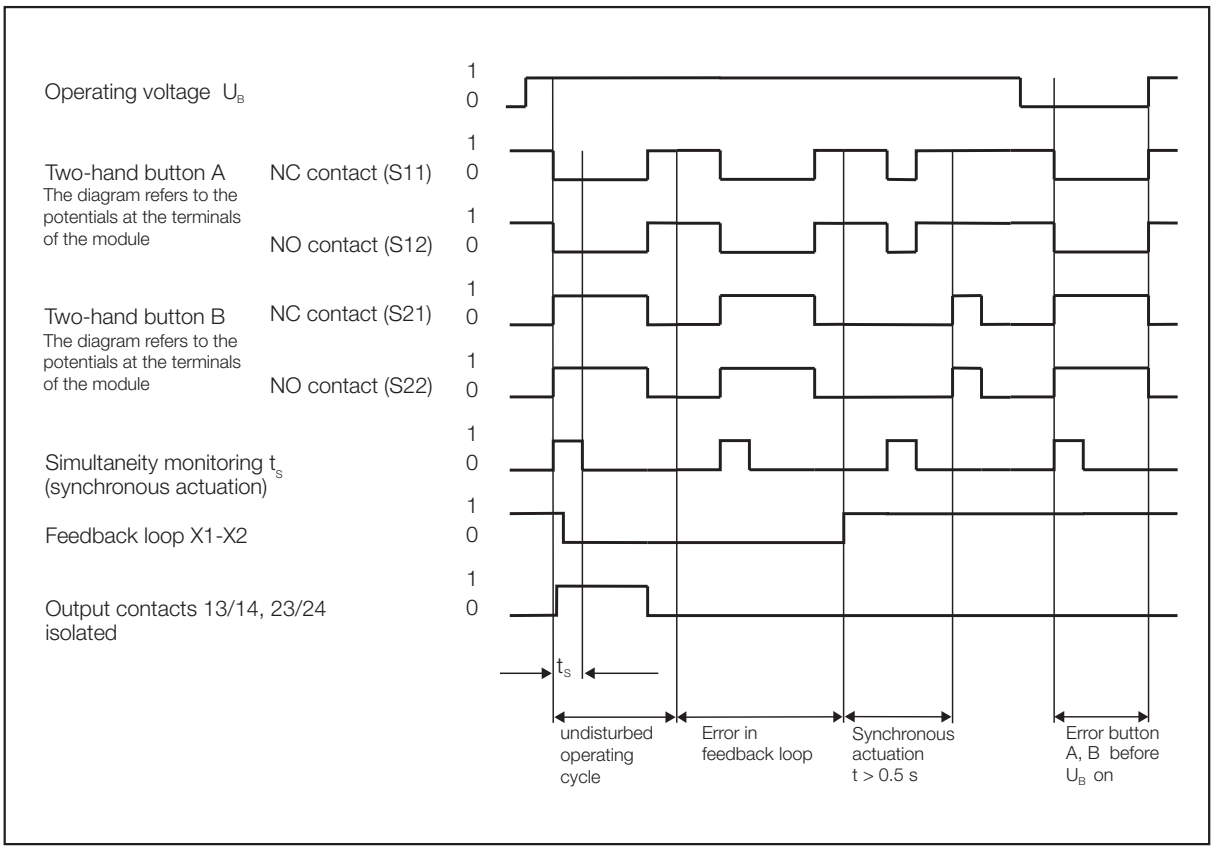
Circuit example



NB

- 2-channel control with two contacts A and B
- The NC contact of the buttons A and B must have opened before the NO contact closes. No overlapping contacts since otherwise the fuses F1 and F2 would trigger.
- Power level: 2-channel control, suitable for contact amplification and contact multiplication through contactors or relays with positively driven contacts.
- (H2) = feedback loop
- The control circuit detects wire breaks and earth leakage in the monitoring circuit.

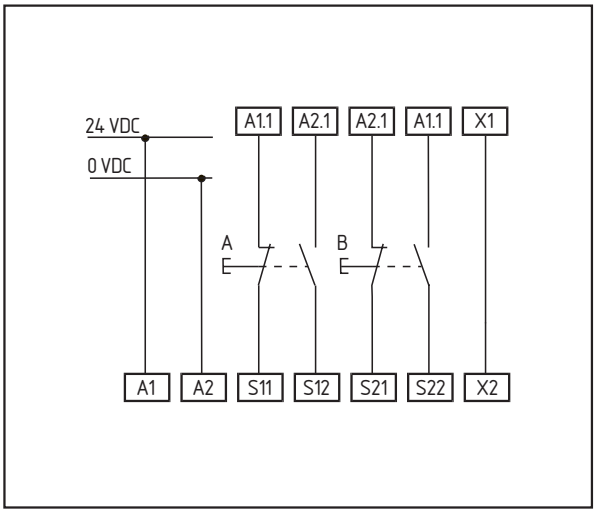
	SRB 201ZH
Operating voltage	24 VDC –15%/+10%, residual ripple max. 10%
Fuse of operating voltage	internal electronic fuse F1, F2, tripping current > 0.2 A, internal electronic fuse F3, tripping current > 0.6 A
Power consumption	max. 1.2 W
Switching capacity of the enabling contacts	230 VAC, 6 A ohmic (inductive with suitable suppressor circuit)
Fuse of the enabling contacts	6 A slow-blowing
Switching capacity of the auxiliary contacts	24 VDC, 2 A
Fuse of the auxiliary contacts	2 A slow-blowing
Utilisation categories	AC 15/DC 13: EN 60 947-5-1
Pickup delay	≤ 50 ms
Dropout delay	≤ 30 ms
Contact material/contacts	AgSnO, self-cleaning, positively driven
Contact resistance	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 mm², max. 2.5 mm², strand or multicore with wire end ferrule
Dimensions	h/b/d 100 mm/22.5 mm/121 mm
Weight	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



Start/sensor configuration

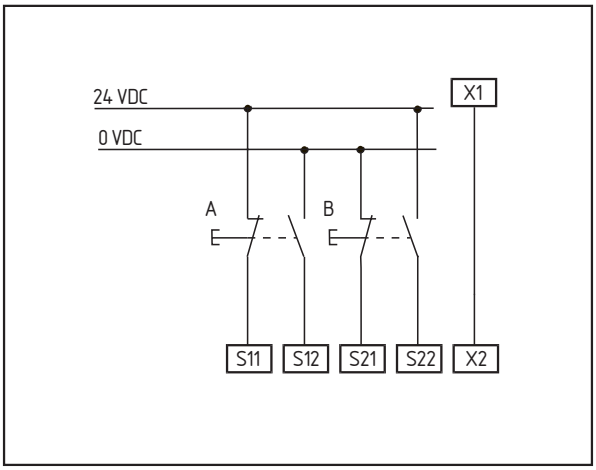
Two-hand circuit to DIN EN 574 and EN 60 204-1

- 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 a series circuit of the NC contacts with the terminals X 1 and X2. In release state this circuit must be closed.
- Safety category III C to DIN EN 574 (02.97)



Circuit example control level/ two hand circuit to DIN EN 574 and EN 60 204-1

- 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 a series circuit of the NC contacts with the terminals X 1 and X2. In release state this circuit must be closed.
- Safety category III C to DIN EN 574 (02.97)

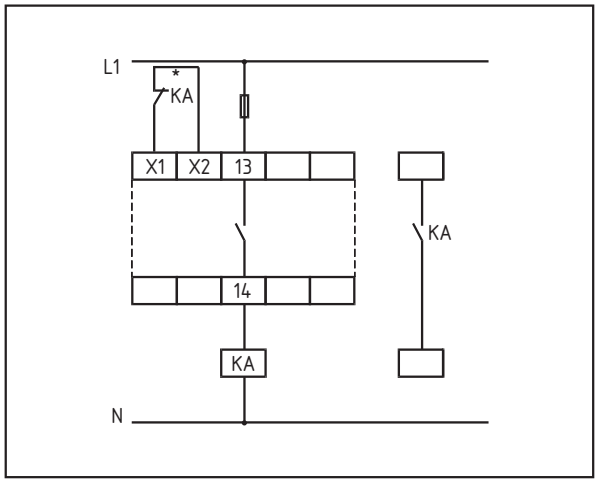


Actuator configuration

Single-channel control

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

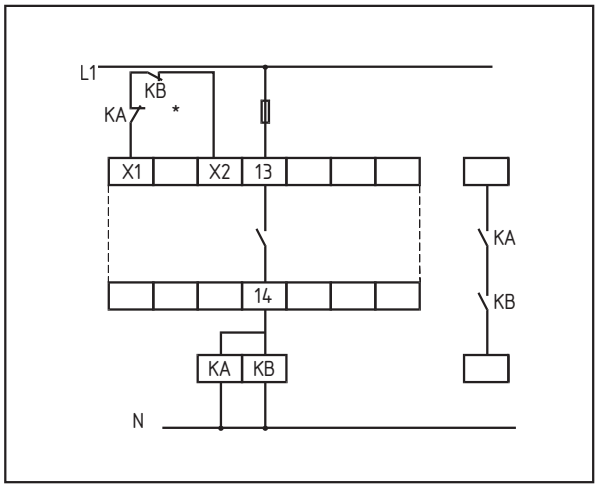
* Feedback loop
If the feedback loop is not required it is to be replaced by a bridge.



Dual-channel control

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

* Feedback loop
If the feedback loop is not required it is to be replaced by a bridge.



Terminal designation

Voltages

A1	+24 VDC
A2	0 VDC

Inputs

A1.1/S11	Input 1st actuator (NC contact)
A2.1/S12	Input 1st actuator (NO contact)
A1.1/S22	Input 2nd actuator (NO contact)
A2.1/S21	Input 2nd actuator (NC contact)

Outputs

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