



EN Operating instructions..... pages 9 to 16
Translation of the original operating instructions

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IT Il manuale d'istruzioni aggiornato nella vostra lingua (lingua ufficiale UE) è scaricabile in Internet all'indirizzo www.schmersal.net.

JP EU公用語で書かれた最新の取扱説明書は、インターネット(www.schmersal.net)からダウンロードできます。

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1 About this document

1.1 Function

This operating instructions manual provides all the information you need for the mounting, set-up and commissioning to ensure the safe operation and disassembly of the safety-monitoring module. The operating instructions must be available in a legible condition and a complete version in the vicinity of the device.

1.2 Target group: authorised qualified personnel

All operations described in this operating instructions manual must be carried out by trained specialist personnel, authorised by the plant operator only.

Please make sure that you have read and understood these operating instructions and that you know all applicable legislations regarding occupational safety and accident prevention prior to installation and putting the component into operation.

The machine builder must carefully select the harmonised standards to be complied with as well as other technical specifications for the selection, mounting and integration of the components.

1.3 Explanation of the symbols used



Information, hint, note:

This symbol is used for identifying useful additional information.



Caution: Failure to comply with this warning notice could lead to failures or malfunctions.

Warning: Failure to comply with this warning notice could lead to physical injury and/or damage to the machine.

1.4 Appropriate use

The products described in these operating instructions are developed to execute safety-related functions as part of an entire plant or machine. It is the responsibility of the manufacturer of a machine or plant to ensure the proper functionality of the entire machinery or plant.

The safety-monitoring module must be exclusively used in accordance with the versions listed below or for the applications authorised by the manufacturer. Detailed information regarding the range of applications can be found in the chapter "Product description".

1.5 General safety instructions

The user must observe the safety instructions in this operating instructions manual, the country-specific installation standards as well as all prevailing safety regulations and accident prevention rules.



Further technical information can be found in the Elan catalogues or in the online catalogue on the Internet: www.schmersal.net.

The information contained in this operating instructions manual is provided without liability and is subject to technical modifications.

There are no residual risks, provided that the safety instructions as well as the instructions regarding mounting, commissioning, operation and maintenance are observed.

1.6 Warning about misuse



In case of inadequate or improper use or manipulations of the safety-monitoring module, personal hazards or damage to machinery or plant components cannot be excluded. The relevant requirements of the standard EN 1088 must be observed.

1.7 Exclusion of liability

We shall accept no liability for damages and malfunctions resulting from defective mounting or failure to comply with this operating instructions manual. The manufacturer shall accept no liability for damages resulting from the use of unauthorised spare parts or accessories.

For safety reasons, invasive work on the device as well as arbitrary repairs, conversions and modifications to the device are strictly forbidden; the manufacturer shall accept no liability for damages resulting from such invasive work, arbitrary repairs, conversions and/or modifications to the device.

2 Product description

2.1 Ordering code

This operating instructions manual applies to the following types:

| SRB 308IT-① | | |
|-------------|--------|-------------|
| No. | Option | Description |
| ① | 24 V | 24VDC/24VAC |
| | 115 V | 115VAC |
| | 230 V | 230VAC |



Only if the information described in this operating instructions manual are realised correctly, the safety function and therefore the compliance with the Machinery Directive is maintained.

2.2 Special versions

For special versions, which are not listed in the order code below 2.1, these specifications apply accordingly, provided that they correspond to the standard version.

2.3 Destination and use

The safety-monitoring modules for integration in safety circuits are designed for fitting in control cabinets. They are used for the safe evaluation of the signals of positive break position switches or magnetic safety sensors for safety functions on sliding, hinged and removable safety guards as well as emergency stop control devices and AOPD's.

The safety function is defined as the opening of enabling circuits 13-14, 23-24 and 33-34 when the inputs S11-S12 and/or S21-S22 and/or S31-S32 are opened. The safety-relevant current paths with output contacts 13-14, 23-24 and 33-34 meet the following requirements under observation of a B_{10d} value assessment (also refer to "Requirements of DIN EN ISO 13 849-1"):

- Category 4 - PL e to DIN EN ISO 13849-1
- SIL 3 to DIN EN 61508-2
- SILCL 3 to DIN EN 62061
(meets the requirements of control category 4 to DIN EN 954-1)

To determine the Performance Level (PL) of the entire safety function (e.g. sensor, logic, actuator) to DIN EN ISO 13849-1, an analysis of all relevant components is required.

2.4 Technical data

| General data | |
|--|---|
| Standards: | IEC/EN 60204-1, EN 60947-5-1; EN ISO 13849-1, IEC/EN 61508 |
| Climate resistance: | EN 60068-2-78 |
| Fixing: | Snaps onto standard DIN rails to DIN EN 60715 |
| Terminal designations: | EN 60947-1 |
| Material of the enclosure: | glass-fibre reinforced thermoplastic, ventilated |
| Material of the contacts: | AgSnO, self-cleaning, positive drive |
| Weight: | 24VDC/24VAC: 340 g 115VAC / 230VAC: 400 g |
| Start conditions | automatic or start button (optionally monitored) |
| Feedback circuit (Y/N): | Yes |
| Pull-in delay with automatic start: | typ. 60 ms |
| Pull-in delay with reset button: | typ. 200 ms |
| Drop-out delay in case of emergency stop: | typ. 15 ms |
| Drop-out delay on "supply failure": | on request |
| Mechanical data | |
| Connection type: | Screw terminals |
| Cable section: | min. 0.25 mm ² / max. 2.5 mm ² |
| Connecting cable: | rigid or flexible |
| Tightening torque for the terminals: | 0.6 Nm |
| With removable terminals (Y/N): | Yes |
| Mechanical life: | 10 million operations |
| Electrical life: | Derating curve available on request |
| Resistance to shock: | 10 g / 11 ms |
| Resistance to vibrations to EN 60068-2-6: | 10 ... 55 Hz, amplitude 0.35 mm |
| Ambient conditions | |
| Ambient temperature: | -25°C ... +45°C |
| Storage and transport temperature: | -40°C ... +85°C |
| Protection class: | Enclosure: IP 40 Terminals: IP 20 Wiring compartment: IP 54 |
| Air clearances and creepage distances to IEC/EN 60664-1: | 4 kV/2 (basic insulation) |
| EMC rating: | to EMC Directive |
| Electrical data | |
| Contact resistance in new state: | max. 100 mΩ |
| Power consumption: | max. 3 W / 3 VA |
| Rated operating voltage U _e : | 24 VDC: 15% / +20%, residual ripple max. 10% 230 VAC / 115 VAC / 24 VAC: 15% / +10% |
| Frequency range: | 50 Hz / 60 Hz |
| Max. fuse rating of the operating voltage: | Internal electronic trip, tripping current F1: > 0.5 A, Reset after disconnection of supply voltage |
| Monitored inputs | |
| Cross-wire detection (Y/N): | Yes |
| Wire breakage detection (Y/N): | Yes |
| Earth leakage detection (Y/N): | Yes |
| Number of NO contacts: | 0 |
| Number of NC contacts: | 2 |
| Cable lengths: | - 1,500 m = 1.5 mm ² - 2,500 m = 2.5 mm ² 1-channel 2-channel without cross-wire short detection |
| Conduction resistance: | max. 40 Ω |

| | |
|---|--|
| Outputs | |
| Number of safety contacts: | 3 |
| Number of auxiliary contacts: | 2 |
| Number of signalling outputs: | 6 |
| Switching capacity of the safety contacts: | 13-14; 23-24; 33-34: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V / 10 mA |
| Switching capacity of the auxiliary contacts: | 41-42 / 53-54: 24 VDC / 2 A |
| Switching capacity of the signalling outputs: | 24 VDC: max. 10 mA |
| Fuse rating of the safety contacts: | 6.3 A slow blow |
| Recommended fuse for the auxiliary contacts: | 2 A slow blow |
| Fuse rating of the signalling outputs: | Internal electronic trip F2, tripping current > 100 mA |
| Utilisation category to EN 60947-5-1: | AC-15 / DC-13: EN 60947-5-1 |
| Dimensions (H/W/D): | 100 mm × 45 mm × 121 mm |
| The data specified in this manual is applicable when the component is operated with rated operating voltage $U_e \pm 0\%$. | |

2.5 Safety classification

| | |
|-------------------------------|--|
| Standards: | EN ISO 13849-1, IEC 61508, EN 60947-5-1 |
| PL: | Stop 0: up to e |
| Control category: | Stop 0: up to 4 |
| DC: | Stop 0: 99% (high) |
| CCF: | > 65 points |
| SIL: | Stop 0: up to 3 |
| Service life: | 20 years |
| B10d value (for one channel): | Low voltages range 20%: 20,000,000 40%: 7,500,000 60%: 2,500,000 80%: 1,000,000 Maximum load 100%: 400,000 |

$$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}} \quad n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$$

For an average annual demand rate of $n_{op} = 126,720$ cycles per year, Performance Level PL e can be obtained at maximum load.

n_{op} = average number of activations per year
 d_{op} = average number of operating days per year
 h_{op} = average number of operating hours per day
 t_{cycle} = average demand rate of the safety function in s
 (e.g. 4 × per hour = 1 × per 15 min. = 900 s)

(Specifications can vary depending on the application-specific parameters h_{op} , d_{op} and t_{cycle} as well as the load.)

3 Mounting

3.1 General mounting instructions

Mounting: snaps onto standard DIN rails to EN 60715.

Snap the bottom of the enclosure slightly tilted forwards in the DIN rail and push up until it latches in position.

3.2 Dimensions

All measurements in mm.

Device dimensions (H/W/D): 100 × 45 × 121 mm
 with plugged-in terminals: 120 × 45 × 121 mm

4 Electrical connection

4.1 General information for electrical connection



The electrical connection may only be carried out by authorised personnel in a de-energised condition.

Wiring examples: see appendix

5 Operating principle and settings

5.1 LED functions

- K1: Status start relay
- K2: Status channel 1
- K3: Status channel 2
- U_i: Status internal operating voltage (LED is on, when the operating voltage on the terminals A1-A2 is ON and the internal hybrid fuse has not been triggered)
- U_B: Status operating voltage (LED is on, when the operating voltage on the terminals A1-A2 is ON)

5.2 Terminal description

| | | |
|-----------------|---------------------|---|
| Voltages: | A1 | +24 VDC / 24 VAC |
| | A2 | 0 VDC / 0 VAC |
| Other versions: | | |
| | A1-A2 | 48 VAC / 115 VAC / 230 VAC |
| | A1.1 | Supply of the semi-conductor outputs (24 VDC) |
| Inputs: | S11-S12 | Input channel 1 |
| | S21-S22 | Input channel 2 |
| | S31-S32 | Input channel 2 for cross-wire detection: |
| Outputs: | 13-14 | First safety enabling circuit (stop 0) |
| | 23-24 | Second safety enabling circuit (stop 0) |
| | 33-34 | Third safety enabling circuit (stop 0) |
| | 41-42 | Auxiliary NC contact |
| | 53-54 | Auxiliary NO contact |
| Start: | X1-X2 | Feedback circuit |
| | X3 | Supply start |
| | X4 | Manual start (reset button) |
| | X5 | Automatic start |
| | X6 | Endless time offset |
| | Signalling outputs: | Y1 |
| Y2 | | Internal voltage |
| Y3 | | Status channel 1 |
| Y4 | | Status channel 2 |
| Y5 | | Status feedback circuit |
| Y6 | | Status start relay (K1) |
| DIP switch | 1 | Monitored start |
| AF: | 0 | Automatic start |

5.3 Notes


Indications

| Status | A Module off | B Module off | C Module started | D Module started | E Module on |
|-----------------------------------|--------------------|--------------------|------------------------|------------------------|-------------------|
| Y1 – Operating voltage | 1 | 1 | 1 | 1 | 1 |
| Y2 – Internal voltage | 1 | 1 | 1 | 1 | 1 |
| Y3 – Channel 1 (S11-S12) | 0 | 1 | 1 | 1 | 1 |
| Y4 – Channel 2 (S21-S22, S31-S32) | 0 | 1 | 1 | 1 | 1 |
| Y5 – Feedback circuit | 1 | 1 | 1 | 1 | 0 |
| Y6 – Relays K1 | 0 | 0 | 0 | 1 | 0 |
| 41-42 – Auxiliary NC contact | 1 | 1 | 1 | 1 → 0 | 0 |
| 53-54 - Auxiliary NO contact | 0 | 0 | 0 | 0 → 1 | 1 |

- A: operating voltage is on, safety guard open, feedback circuit closed
- B: operating voltage is on, safety guard closed, feedback circuit closed
- C: operating voltage is on, safety guard closed, feedback circuit closed, reset button actuated
- D: operating voltage is on, safety guard closed, feedback circuit closed, reset button released
- E: operating voltage is on, safety guard closed, feedback circuit open

Opening the front cover (see Fig. 2)

- To open the front cover, insert a slot screwdriver in the top and bottom cover notch and gently lift it.
- When the front cover is open, the electrostatic discharge requirements must be respected and observed.
- After the setting, the front cover must be fitted back in position.

 Only touch the components after electrical discharge!

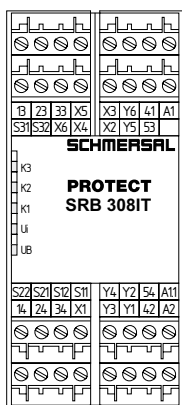


Fig. 1

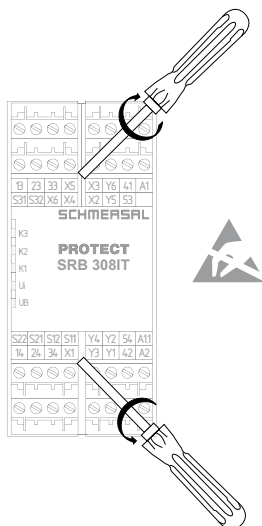



Fig. 2

Setting the switch (see Fig. 3)

- The "automatic start" or "trailing edge" function is programmed by means of the switch underneath the front cover of the safety-monitoring module.
- The switch must only be operated in de-energised condition by means of a finger or an insulated blunt tool.
- Pos. AF = 1 (LHS, condition on delivery): the external reset button is monitored for a "trailing edge".
- Pos. AF = 0 (RHS): "automatic start" programmed

 Only touch the components after electrical discharge!

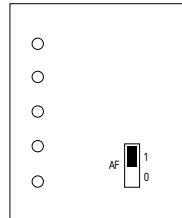


Fig. 3
Condition on delivery AF = 1

6 Set-up and maintenance

6.1 Functional testing

The safety function of the safety-monitoring module must be tested. The following conditions must be previously checked and met:

1. Correct fixing
2. Check the integrity of the cable entry and connections
3. Check the safety-monitoring module's enclosure for damage.
4. Check the electrical function of the connected sensors and their influence on the safety-monitoring module and the downstream actuators

6.2 Maintenance

A regular visual inspection and functional test, including the following steps, is recommended:

1. Check the correct fixing of the safety-monitoring module
2. Check the cable for damages
3. Check electrical function

Damaged or defective components must be replaced.

7 Disassembly and disposal

7.1 Disassembly

The safety-monitoring module must be disassembled in a de-energised condition only.

7.2 Disposal

The safety-monitoring module must be disposed of in an appropriate manner in accordance with the national prescriptions and legislations.

8 Appendix

8.1 Wiring examples

Dual-channel control, shown for a guard door monitor with two position switches where one has a positive break contact; with external reset button (R) (Fig. 2)

- Relay outputs: Suitable for 2-channel control, for increase in capacity or number of contacts by means of contactors or relays with positive-guided contacts.
- The control system recognises wire-breakage, earth faults and cross-wire shorts in the monitoring circuit.
- (R) = Feedback circuit

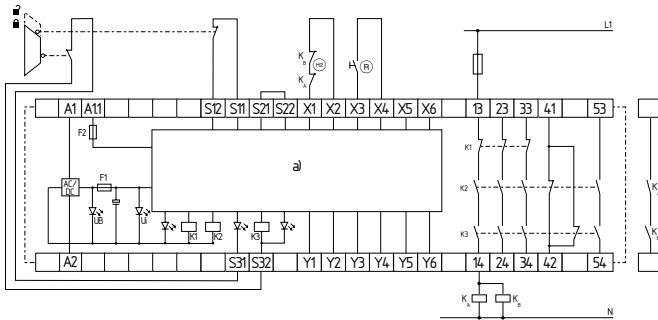


Fig. 4
a) Logic

8.2 Start configuration

External reset button (with edge detection) (see Fig. 5)

- The external reset button is integrated as shown.
- The function "trailing edge" is set by means of the "AF" switch located at the front of the enclosure (switch position = 1).
- The safety-monitoring module is activated by the reset (after release) of the reset button (= detection of the falling edge). Faults in the reset button, e.g. welded contacts or manipulations which could lead to an inadvertent restart, are detected in this configuration and will result in an inhibition of the operation.

Automatic start (Fig. 6 and 7)

- The automatic start is programmed by connecting the feedback circuit to the terminals X3-X5.
- The time offset between the channels 1 and 2 is approx. 100 ms. An endless time offset between the channels 1 and 2 is programmed by bridging the terminals X3-X6.
- **Caution:** Not admitted without additional measure due to the risk of gaining access by stepping behind!
- within the meaning of EN 60204-1:2006 paragraph 9.2.5.4.2 and 10.8.3, the operating mode "automatic start" is only restrictedly admissible. In particular, any inadvertent restart of the machine must be prevented by other suitable measures.

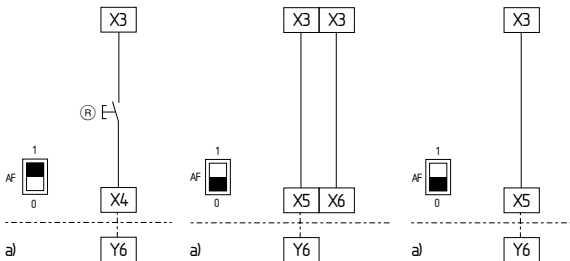


Fig. 5 Fig. 6: Time offset ∞ Fig. 7: Time offset 100 ms

Start-up test (see fig. 8 and 9)

- As contacts for the start-up test additional auxiliary contacts must be provided.

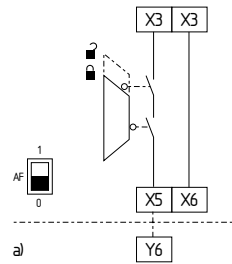


Fig. 8

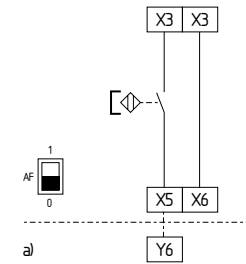


Fig. 9

8.3 Sensor configuration

Single-channel emergency stop circuit with command devices to DIN EN ISO 13850 (EN 418) and EN 60947-5-5 (Fig. 10)

- Wire breakage and earth leakage in the control circuits are detected.
- Possible control categories:
 - 1 to EN 954-1
 - 2 – PL d to DIN EN ISO 13849-1

Dual-channel emergency stop circuit with command devices to DIN EN ISO 13850 (EN 418) and EN 60947-5-5 (Fig. 11)

- Wire breakage and earth leakage in the control circuits are detected.
- Cross-wire shorts between the control circuits **are not detected**.
- Possible control categories:
 - 3 to EN 954-1
 - 4 to EN 954-1 (with protective wiring)
 - 4 – PL e to DIN EN ISO 13849-1 (with protective wiring)

Dual-channel emergency stop circuit with command devices to DIN EN ISO 13850 (EN 418) and EN 60947-5-5 (Fig. 12)

- Wire breakage and earth leakage in the control circuits are detected.
- Cross-wire shorts between the control circuits are detected.
- Possible control categories:
 - 4 to EN 954-1
 - 4 – PL e to DIN EN ISO 13849-1

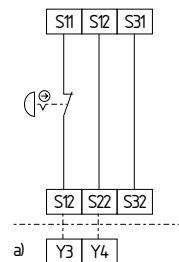


Fig. 10

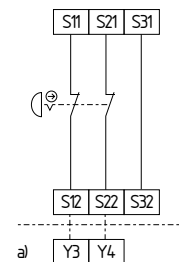


Fig. 11

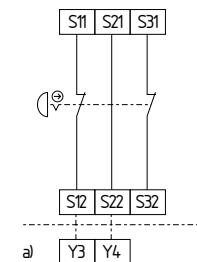


Fig. 12

Single-channel guard door monitoring circuit with interlocking devices to EN 1088 (Fig. 13)

- At least one contact with positive break required
- Wire breakage and earth leakage in the control circuits are detected.
- Possible control categories:
 - 1 to EN 954-1
 - 2 – PL d to DIN EN ISO 13849-1

Dual-channel guard door monitoring circuit with interlocking device to EN 1088 (Fig. 14)

- At least one contact with positive break required
- Wire breakage and earth leakage in the control circuits are detected.
- Cross-wire shorts between the monitoring circuits are not detected.
- Possible control categories:
 - 3 to EN 954-1
 - 4 to EN 954-1 (with protective wiring)
 - 4 – PL e to DIN EN ISO 13849-1 (with protective wiring)

Dual-channel guard door monitoring circuit with interlocking device to EN 1088 (Fig. 15)

- At least one contact with positive break required
- Wire breakage and earth leakage in the control circuits are detected.
- Cross-wire shorts between the guard monitoring circuits are detected.
- Possible control categories:
 - 4 to EN 954-1
 - 4 – PL e to DIN EN ISO 13849-1

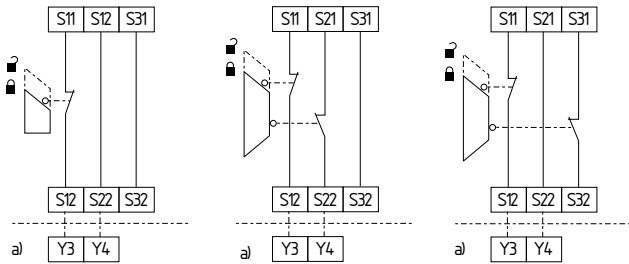


Fig. 13

Fig. 14

Fig. 15

Dual-channel control of a safety-related electronic (micro-processor-based) safety guard with p-type transistor outputs e.g. AOPD's to EN IEC 61496 (see Fig. 16)

- Wire breakage and earth leakage in the control circuits are detected.
- Cross-wire shorts between the control circuits are usually detected by the safety guards. The safety-monitoring module therefore is not equipped with a cross-wire short detection here.
- Possible control categories:
 - If cross-wire shorts in the control circuits are detected by the safety guard:
 - 4 to EN 954-1
 - 4 – PL e to DIN EN ISO 13849-1
 - If cross-wire shorts in the control circuits are detected by the safety guard.

Dual-channel control of magnetic safety switches according to EN 60947-5-3 (see Fig. 17)

- The control system recognises wire-breakage and earth faults in the control circuit.
- Cross-wire shorts between the control circuits **are not detected**.
- Possible control categories:
 - 3 to EN 954-1
 - 3 – PL e to DIN EN ISO 13849-1

2-channel control of magnetic safety switches according to EN 60947-5-3 (see Fig. 15)

- The control system recognises wire-breakage and earth faults in the control circuit.
- Cross-wire shorts between the control circuits are detected.
- Possible control categories:
 - 3 to EN 954-1
 - 3 – PL d to DIN EN ISO 13849-1



The connection of magnetic safety switches to the SRB 308IT safety-monitoring module is only admitted when the requirements of the standard EN 60947-5-3 are observed.

As the technical data are regarded, the following minimum requirements must be met:

- switching capacity: min. 1.4 mW
- switching voltage: min. 28 VDC
- switching current: min. 50 mA



For example, the following safety sensors meet the requirements:

- BNS 33-02z-2187
- BNS 260-02z, BNS260-02
- BNS 260-02-01z, BNS260-02-01



Caution! When sensors with LED are wired in the control circuit (protective circuit), the following rated operating voltage must be observed and respected: – 24 VDC with a max. tolerance of –5%/+20%

Otherwise availability problems could occur, especially in series-wired sensors, where a voltage drop in the control circuit is triggered by LED's for instance.

Dual-channel control of a safety-related electronic (micro-processor-based) safety guard with p-type transistor outputs e.g. AOPD's to EN IEC 61496 (see Fig. 18)

- Wire breakage and earth leakage in the control circuits are detected.
- Cross-wire shorts between the control circuits are usually detected by the safety guards. The safety-monitoring module therefore is not equipped with a cross-wire short detection here.
- Control category: 3 to EN 954-1:1997
- If cross-wire shorts in the control circuits are detected by the safety guard:
 - control category 4 to EN 954-1:1997
 - control category 4 – PL e to DIN EN ISO 13849-1 possible.

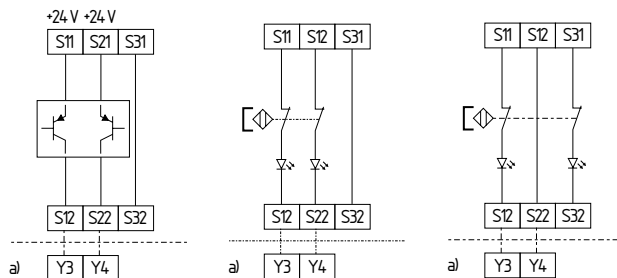


Fig. 16

Fig. 17

Fig. 18

8.4 Actuator configuration

Single-channel control with feedback circuit (Fig. 19)

- Suitable for increase in capacity or number of contacts by means of contactors or relays with positive-guided contacts.
- If the feedback circuit is not required, establish a bridge.
- $\textcircled{+}$ = Feedback circuit:
if the feedback circuit is not required, establish a bridge.

Dual-channel control with feedback circuit (Fig. 20)

- Suitable for increase in capacity or number of contacts by means of contactors or relays with positive-guided contacts.
- $\textcircled{+}$ = Feedback circuit:
if the feedback circuit is not required, establish a bridge.

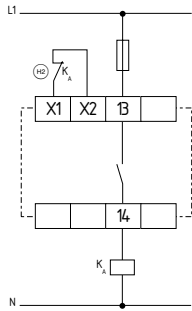


Fig. 19

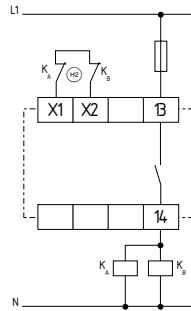




Fig. 20

8.5 EC Declaration of conformity

| | |
|---|--|
|  | |
| <h2>EC Declaration of conformity</h2> | |
| Translation of the original declaration of conformity valid as of December 29, 2009 | Elan Schaltelemente GmbH & Co. KG Im Ostpark 2 · 35435 Wettenberg Germany Internet: www.elan.de |
| We hereby certify that the hereafter described safety components both in its basic design and construction conform to the applicable European Directives. | |
| Name of the safety component: | SRB 308IT |
| Description of the safety component: | Safety-monitoring module for emergency stop circuits, guard door monitoring, magnetic safety switches and AOPD's |
| Harmonised EC-Directives: | 2006/42/EC EC-Machinery Directive 2004/108/EC EMC-Directive |
| Person authorized for the compilation of the technical documentation: | Ulrich Loss Mödinghofe 30 42279 Wuppertal |
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Note
The currently valid declaration of conformity can be downloaded from the internet at www.schmersal.net.



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