



EN Operating instructions..... pages 1 to 8
Translation of the original operating instructions

FR Vous trouverez la version actuelle du mode d'emploi dans votre langue nationale officielle sur l'Internet, www.schmersal.net.

ES Encontrará el manual de instrucciones actual en su idioma oficial de la UE en nuestra página de Internet www.schmersal.net.

NL U vindt de huidige versie van de gebruikshandleiding in uw officiële landstaal op het Internet, www.schmersal.net.

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 219IT



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 for safety functions or magnetic safety sensors 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 the enabling circuits 13-14 and 23-24 and the delayed opening of the enabling circuits 37-38 when the inputs S11-S12 and/or S11-S22 or S31-S32 are opened. The safety-relevant current paths with the output contacts 13-14 and 23-24 meet the following requirements under observation of a B_{10d} value assessment (also refer to „Requirements to DIN EN ISO 13849-1“):

- Control category 4
- PL e to DIN EN ISO 13849-1
- corresponds to SIL 3 to DIN EN 61508-2
- corresponds to SILCL 3 to DIN EN 62061 (corresponds to control category 4 to DIN EN 954-1)

The safety-relevant current path with output contact 37-38 meets the following requirements under observation of a B_{10d} value assessment (also refer to „Requirements of DIN EN ISO 13849-1“):

- Control category 3
- PL d to DIN EN ISO 13849-1
- corresponds to SIL 2 to DIN EN 61508-2
- corresponds to SILCL 2 to DIN EN 62061 (corresponds to control category 3 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:	360 g
Start conditions	automatic or start button (monitored)
Feedback circuit available:	Yes
Pull-in delay for 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

Mechanical data:

Connection type:	Screw terminals
Cable section:	min. 2 mm ² / max. 2 mm ²
Connecting cable:	rigid or flexible
Tightening torque for the terminals:	0.6 Nm
With removable terminals:	Yes
Mechanical life:	10 million operations
Resistance to shock:	10 g / 11 ms
Resistance to vibrations to EN 60068-2-6:	10 ... 55 Hz, amplitude 0.35 mm
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. 4.4 W / 5.2 VA
Rated operating voltage U _e :	24 VDC –15% / +20%, residual ripple max. 10% 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:	optional
Wire breakage detection:	Yes
Earth leakage detection:	Yes
Number of NO contacts:	0
Number of NC contacts:	2
Conduction resistance:	max. 40 Ω

Outputs:

Number of safety contacts:	3
Number of auxiliary contacts:	1
Number of signalling outputs:	8

Switching capacity of the safety contacts:	13-14, 23-24: max. 230 V, 6 A ohmic (inductive in case of appropriate protective wiring); AC-15: 230 V / 6 A; DC-13: 24 V / 6 A 37-38: max. 230 V, 6 A ohmic (inductive in case of appropriate protective wiring); AC-15: 230 V / 2 A; DC-13: 24 V / 2 A; min. 10 V / 10 mA
Switching capacity of the auxiliary contacts:	41-42: 24 VDC / 2 A
Recommended fuse for the auxiliary contacts:	41-42: 2 A slow blow
Switching capacity of the signalling outputs:	24 VDC, max. 10 mA
Fuse rating of the safety contacts:	13-14, 23-24, 37-38: 6.3 A slow blow
Fuse rating of the signalling outputs:	Internal electronic trip F2, tripping current > 100 mA
External auxiliary voltage:	A1.1: 24 VDC ± 10%
Utilisation category to EN 60947-5-1:	AC-15, DC-13
Dimensions (H/W/D):	100 × 45 × 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 Stop 1: up to d
Control category:	Stop 0: up to 4 Stop 1: up to 3
DC:	Stop 0: 99% (high) Stop 1: > 60% (low):
CCF:	> 65 points
SIL:	Stop 0: up to 3 Stop 1: up to 2
Service life:	20 years
B_{10d} value (for one channel):	20%: 20,000,000 40%: 7,500,000 60%: 2,500,000 80%: 1,000,000 100%: 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 n_{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

LED functions

- K1: Status start relay
- K2: Status channel 1
- K3: Status channel 2
- K4: Status stop 1
- K5: Status stop 1
- 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)

Terminal description (see Fig. 1)

Voltages:	A1	+24 VDC/24 VAC
	A2	0 VDC/0 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:
	RT	Premature termination of the drop-out delay
Outputs:	13-14	First safety enabling circuit (stop 0)
	23-24	Second safety enabling circuit (stop 0)
	37-38	Third safety enabling circuit (stop 1), drop-out delay 1...30 sec
	41-42	Auxiliary NC contact
	53-54	Auxiliary NO contact
Start:	X1-X2	Feedback circuit
	X3	Supply start
	X4	Manual start (single button, monitored)
	X5	Automatic start
	X6	Automatic start and endless time offset
Signalling outputs:	Y1	Operating voltage
	Y2	Internal voltage
	Y3	Status channel 1
	Y4	Status channel 2
	Y5	Status feedback circuit
	Y6	Status start relay (K1)
	Y7	Status stop 1 (K4, K5)
	Y8	Auxiliary NO contact stop 0 (K2, K3)
DIP switch	1	Monitored start
AF:	0	Automatic start


Indications

Status	A Module off	B Module off	C Module started	D Module started	E Module on
Y1 – Operating voltage	0	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 – Relay K1	0	0	0	1	0
Y7 – Relays K4, K5	0	0	0	0	1
41-42 – Auxiliary NC contact	1	1	1	1 → 0	0
Y8 – 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, start button actuated
- D: operating voltage is on, safety guard closed, feedback circuit closed, start 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.
- The set drop-out delay must be entered on the front cover.

 Only touch the components after electrical discharge!

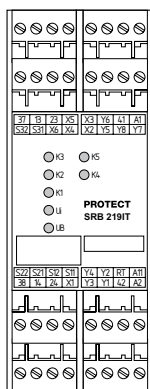


Fig. 1

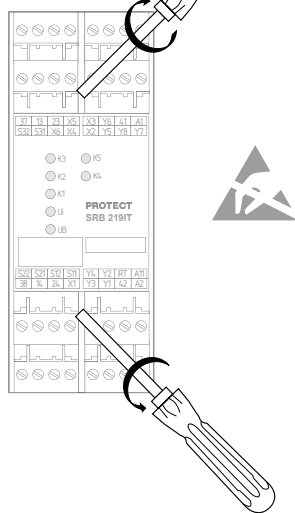


Fig. 2

5.1 Notes

Set-up instructions

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

Instructions for setting the drop-out delay

- To set the drop-out delay for the enabling circuits 37-38, the cover of the safety-monitoring module must be removed. The drop-out delay is set by means of both potentiometers P1 (channel 1) and P2 (channel 2). The set resistance value can be measured at the measuring points MP1 (P1) and MP2 (P2) by means of an ohmmeter. A clockwise rotation of the potentiometer corresponds to an increase of the resistance value (refer to table 1).
- The values listed in the table below are reference values for the resistance setting.
- The set drop-out delay must be set equally for both channels (acoustic check of the relay). After the set-up procedure is terminated, the drop-out delay must be checked by means of enabling circuit 37-38.
- Register the drop-out delay on the cover in the field [t: s].

Time (sec.)	Resistance (kOhm)	Time (sec.)	Resistance (kOhm)
0.6	0	10.0	330
1.5	30	12.0	390
2.0	45	15.0	480
3.0	81	20.0	660
6.0	185	25.0	840
8.0	250	30.0	1,000

Time delay (Fig. 4)

- The drop-out delay of the time-delayed safety enabling circuit 37-38 is adjustable from 0.6 to 30 seconds.
- The safety enabling circuit 37-38 meets STOP category 1 to EN 60204-1.
- The safety enabling circuits 13-14 and 23-24 meet STOP category 0 to EN 60204-1.
- The drop-out delay is set by means of potentiometers located at the front of the enclosure.

Premature termination of the time delay (Fig. 5)

- The drop-out delay time can be terminated prematurely via the input RT.
- The input RT makes it possible to „switch off“ the time-delayed enabling circuit 37-38 before the set time has elapsed.
- The reset function is only active during the drop-out delay (after switch-off of the safety-monitoring module), whereby a reset signal is internally generated by a „rising edge“ (24 VDC signal at the RT input).

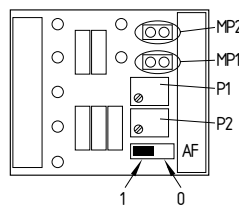


Fig. 3

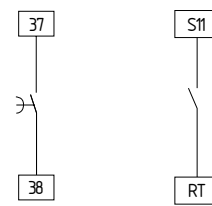


Fig. 4

Fig. 5

5.2 Setting report SRB 219IT

This report regarding the setting of the device must be completed accordingly by the customer and enclosed in the technical manual of the machine.

The setting report must be available whenever a safety check is performed.

Company: _____

The safety-monitoring module is used in the following machine:

Machine n° _____ Machine type _____ Module n° _____

Set drop-out delay: _____

Set on (date) _____ Signature of the responsible person _____

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. 6)

- 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.

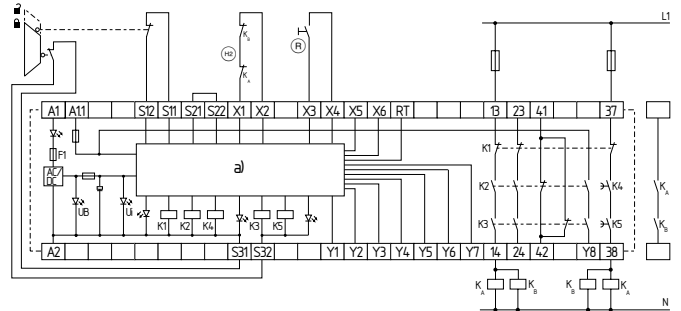


Fig. 6
Ⓡ = Feedback circuit

8.2 Start configuration

External reset button (with edge detection) (see Fig. 7)

- 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. 8 and 9)

- The automatic start is programmed by bridging 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.

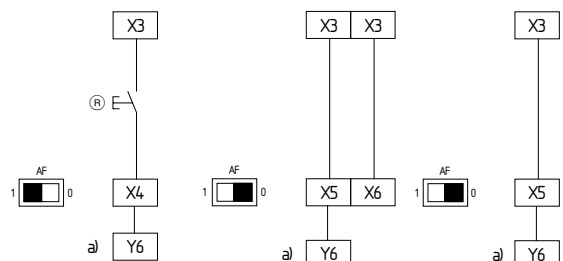


Fig. 7 a) Signalling output Fig. 8: Time offset ∞ a) Signalling output Fig. 9: Time offset 100 ms a) Signalling output

Start-up test (see fig. 10 and 11)

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

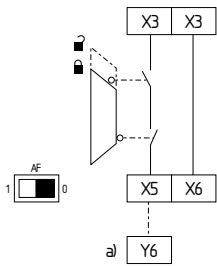


Fig. 10
a) Signalling output

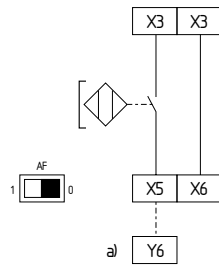


Fig. 11
a) Signalling output

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. 12)

- 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. 13)

- 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

Dual-channel emergency stop circuit with command devices to DIN EN ISO 13850 (EN 418) and EN 60947-5-5 (Fig. 14)

- 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

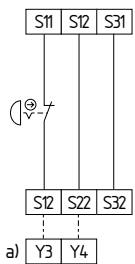


Fig. 12
a) Signalling outputs

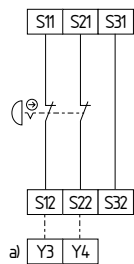


Fig. 13
a) Signalling outputs

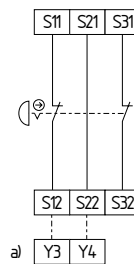


Fig. 14
a) Signalling outputs

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

- 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. 16)

- At least one contact with positive break required
- 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)
 - 2 – PL d to DIN EN ISO 13849-1

Dual-channel guard door monitoring circuit with interlocking device to EN 1088 (Fig. 17)

- With at least one positive-break position switch
- 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

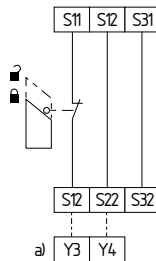


Fig. 15
a) Signalling outputs

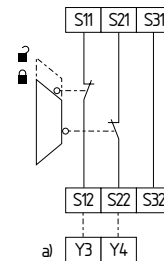


Fig. 16
a) Signalling outputs

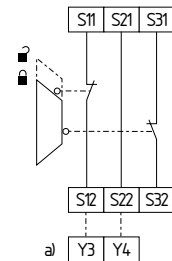


Fig. 17
a) Signalling outputs

Dual-channel control of magnetic safety switches to EN 60 947-5-3 (see Fig. 18)

- 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
 - 3 – PL e to DIN EN ISO 13849-1

Dual-channel control of magnetic safety switches to EN 60 947-5-3 (see Fig. 19)

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

Dual-channel control of a safety-related (microprocessor-based) safety guard with p-type transistor outputs e.g. AOPD's to EN 61496-1 (see Fig. 20)

- 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:
 - 3 to EN 954-1
 - 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



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

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

- Switching capacity: min. 1.4 W
- Switching voltage: min. 28 VDC
- Switching current: min. 50 mA



For example, the following safety sensors from Schmersal meet the requirements:

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



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.

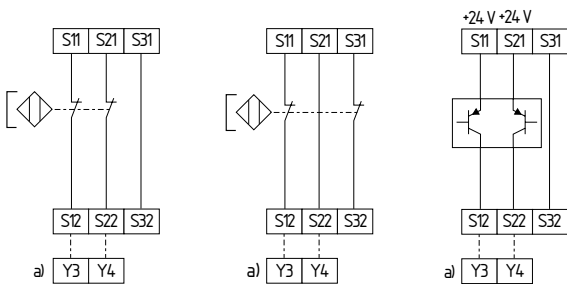


Fig. 18

a) Signalling outputs

Fig. 19

a) Signalling outputs

Fig. 20

a) Signalling outputs

8.4 Actuator configuration

Single-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.
- Ⓜ = Feedback circuit: if the feedback circuit is not required, establish a bridge.

Dual-channel control with feedback circuit (Fig. 21)

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

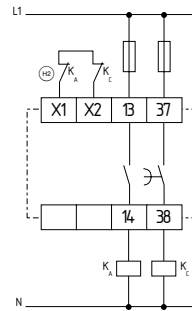


Fig. 19

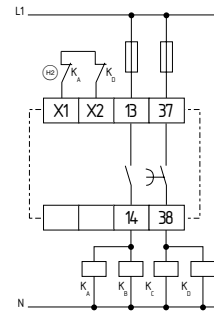


Fig. 20

Diversitary control

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

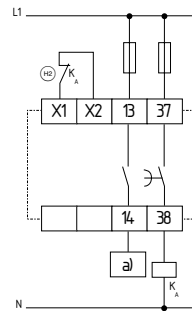




Fig. 21

* = Enabling signal controller

8.5 EC Declaration of conformity

	
<h2>EC Declaration of conformity</h2>	
Translation of the original declaration of conformity gültig ab 29. Dezember 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 conforms to the applicable European Directives.	
Name of the safety component:	SRB 219IT
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 Möddinghofe 30 42279 Wuppertal
Notified body, which approved the full quality assurance system, referred to in Appendix X, 2006/42/EC:	TÜV Rheinland Industrie Service GmbH Alboinstraße 56 12103 Berlin ID n°: 0035
Place and date of issue:	Wuppertal, October 6, 2009
SRB219IT-B-EN	
	Authorised signature Heinz Schmersal Managing Director



Note
The currently valid declaration of conformity can be downloaded from the internet at www.schmersal.net.



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