SCHMERSAL

EN	Operating instructions Original	.pages	1 to	3 c
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	-	m 1

	About this document
1.1	Function
1.2	Target group: authorised qualified personnel
	Explanation of the symbols used
	Appropriate use
	General safety instructions
	Warning about misuse
	Exclusion of liability
1.7	Exclusion of hability
2	Product description
_	Ordering code
	Special versions
	Destination and use
	Technical data
2.5	Safety classification
_	
3	Mounting
	General mounting instructions
3.2	Dimensions
_	-
-	Electrical connection
-	Electrical connection General information for electrical connection
4.1	General information for electrical connection
4.1 5	General information for electrical connection
4.1 5 5.1	General information for electrical connection
4.1 5 5.1 5.2	General information for electrical connection
4.1 5 5.1 5.2 5.3	General information for electrical connection. 3 Operating principle and settings 3 LED functions. 3 Description of the terminals 3 Notes 4
4.1 5 5.1 5.2 5.3	General information for electrical connection
4.1 5 5.1 5.2 5.3	General information for electrical connection. 3 Operating principle and settings 3 LED functions. 3 Description of the terminals 3 Notes 4
4.1 5 5.1 5.2 5.3 5.4	General information for electrical connection. 3 Operating principle and settings LED functions. 3 Description of the terminals 3 Notes 4 Setting report SRB220XV2 / V.2 5 Set-up and maintenance
4.1 5 5.1 5.2 5.3 5.4	General information for electrical connection
4.1 5 5.1 5.2 5.3 5.4 6 6.1	General information for electrical connection. 3 Operating principle and settings LED functions. 3 Description of the terminals 3 Notes 4 Setting report SRB220XV2 / V.2 5 Set-up and maintenance
4.1 5 5.1 5.2 5.3 5.4 6 6.1	General information for electrical connection. 3 Operating principle and settings 3 LED functions. 3 Description of the terminals 3 Notes 4 Setting report SRB220XV2 / V.2 5 Set-up and maintenance 5 Functional testing. 5 Maintenance 5
4.1 5 5.1 5.2 5.3 5.4 6 6.1 6.2 7	General information for electrical connection. 3 Operating principle and settings LED functions. 3 Description of the terminals 3 Notes 4 Setting report SRB220XV2 / V.2 5 Set-up and maintenance Functional testing. 5 Maintenance 5 Disassembly and disposal
4.1 5 5.1 5.2 5.3 5.4 6 6.1 6.2	General information for electrical connection. 3 Operating principle and settings 3 LED functions. 3 Description of the terminals 3 Notes 4 Setting report SRB220XV2 / V.2 5 Set-up and maintenance 5 Functional testing. 5 Maintenance 5
4.1 5 5.1 5.2 5.3 5.4 6 6.1 6.2 7	General information for electrical connection. 3 Operating principle and settings LED functions. 3 Description of the terminals 3 Notes 4 Setting report SRB220XV2 / V.2 5 Set-up and maintenance Functional testing. 5 Maintenance 5 Disassembly and disposal

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	νĸ	611	u	^

8.1	Wiring examples	. 5
8.2	Start configuration	. 5
8.3	Sensor configuration	.6
8.4	Actuator configuration	. 7

EU Declaration of conformity

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 Schmersal delivery programme is not intended for private consumers.

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 correct 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 Schmersal catalogues or in the online catalogue on the Internet: products.schmersal.com.

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.

Operating instructions Safety-monitoring module

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 standards EN ISO 14119 and EN ISO 13850 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.

The safety-monitoring module must only be used when the enclosure is closed, i.e. with the front cover fitted.

2. Product description

2.1 Ordering code

This operating instructions manual applies to the following types:

SRB220XV2 / V.2



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 on sliding, hinged and removable safety guards as well as emergency stop control devices and AOPD's (light barriers).

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 and 47-48 when the inputs S11-S12 and/or S21-S22 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 EN ISO 13849-1"):

- control category 4 PL e to EN ISO 13849-1
- corresponds to SIL 3 to IEC 61508
- corresponds to SIL CL 3 to EN 62061

The safety-relevant current path with the output contacts 37-38 and 47-48 meets the following requirements under observation of a $\rm B_{10D}$ value assessment (also refer to "Requirements to EN ISO 13849-1"):

- control category 3 PL d to EN ISO 13849-1
- corresponds to SIL 2 to IEC 61508
- corresponds to SIL CL 2 to EN 62061

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



The entire concept of the control system, in which the safety component is integrated, must be validated to the relevant standards.

2.4 Technical data General data:

General data.	
Standards:	EN 60204-1, EN 60947-5-1, EN ISO 13849-1, IEC 61508
Climate resistance:	EN 60068-2-78
Mounting:	Snaps onto standard rail to EN 60715
Terminal designations:	EN 60947-1
Material of the housings:	Plastic, glass-fibre reinforced
0	thermoplastic, ventilated
Material of the contacts:	AgSnO, AgNi, self-cleaning, positive drive
Weight:	420 g
Start conditions:	Automatic or start button (monitored)
Feedback circuit available:	yes
Pull-in delay with reset butto	n: typ. 20 ms
Drop-out delay in case of en	nergency stop: typ. 25 ms
Drop-out delay on "supply fa	illure": typ. 50 ms
Mechanical data:	
Connection type:	Screw connection
Cable section:	min. 0.25 mm² / max. 2.5 mm²
Connecting cable:	rigid or flexible
Tightening torque for the ter	minals: 0.6 Nm
With removable terminals:	No
Mechanical life:	10 million operations
Resistance to shock:	10 g / 11 ms
Resistance to vibrations to E	
	amplitude 0.35 mm
Ambient temperature:	−25 °C +60 °C
Storage and transport temper	
Protection class:	Enclosure: IP40
	Terminals: IP20
	Clearance: IP54
Air clearances and creepage	
distances to EN 60664-1:	4 kV/2 (basic insulation)
EMC rating:	to EMC Directive
Electrical data:	
Contact resistance in new st	
Power consumption:	max. 2.6 W / 5.4 VA
Rated operating voltage U _e :	24 VDC: -15% / +20%,
	residual ripple max. 10%,
	24 VAC: -15% / +10%
Frequency range:	50 / 60 Hz
Fuse rating for the operating	
	Tripping current > 0,9 A,
	Reset after approx. 1 s
Current and voltage at the c	
_ \$11 \$12.	24 VDC continuous current: 60 mA

ourient and vo	lage at the control choale.
- S11, S12:	24 VDC, continuous current: 60 mA
- S13, S14:	24 VDC, start impulse: 250 mA / 15 ms
- S21, S22:	24 VDC, continuous current: 20 mA;
	start impulse: 360 mA / 10 ms
- S31, S32:	24 VDC, continuous current: 65 mA
C33 C31.	24 VDC start impulse: 180 mA / 5 ms

Monitored inputs:

Cross-wire detection:	optional
Wire breakage detection:	yes
Earth connection detection:	yes
Number of NO contacts:	0
Number of NC contacts:	2
Conduction resistance: ma	
Outputs:	
Number of safety contacts:	4
Number of auxiliary contacts:	0
Number of signalling outputs:	0

Operating instructions Safety-monitoring module

Switching capacity of the safety contacts:

13-14, 23-24 (STOP 0): max. 250 V / 8 A ohmic (inductive in case of appropriate protective wiring); AC-15: 230 VAC / 6 A, DC-13: 24 VDC / 6 A;

Residual current $U_B = 24$ VDC at ambient temperature bis 45°C: 16 A / 55°C: 16 A / 60°C: 15 A;

Residual current U_B = 24 VAC at ambient temperature up to 45°C: 16 A / 55°C: 13,5 A / 60°C: 12 A;

37-38, 47-48 (STOP 1): max. 250 V / 8 A ohmic (inductive in case of appropriate protective wiring);

AC-15: 230 VAC / 3 A, DC-13: 24 VDC / 2 A; Residual current U_B = 24 VDC at ambient temperature up to 45°C: 12 A / 55°C: 11 A / 60°C: 10 A;

Residual current U_B = 24 VAC at ambient temperature up to 45°C: 11 A / 60°C: 9 A / 60°C: 8 A

Fuse rating of the safety contacts: STOP 0: 8 A slow blow, STOP 1: 8 A slow blow Utilisation category to EN 60947-5-1: AC-15, DC-13

The data specified in this manual are 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
PL:	STOP 0: up to e,
	STOP 1: up to d
Category:	STOP 0: up to 4,
	STOP 1: up to 3
PFH value:	STOP 0: $\leq 2.0 \times 10^{-8}/h$,
	STOP 1: $\leq 2.0 \times 10^{-7}/h$
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

The PFH values of 2.0 x 10^{-8} /h and 2.0×10^{-7} /h applies to the combinations of contact load (current through enabling contacts) and number of switching cycles (n_{oply}) mentioned in the table below. At 365 operating days per year and a 24-hours operation, this results in the belowmentioned switching cycle times (t_{cycle}) for the relay contacts. Diverging applications upon request.

Contact load	n _{op/y}	t _{cycle}
20 %	525,600	1.0 min
40 %	210,240	2.5 min
60 %	75,087	7.0 min
80 %	30,918	17.0 min
100 %	12,223	43.0 min

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 rail and push up until it latches in position.

3.2 Dimensions

All measurements in mm.

Device dimensions (H/W/D): 100 x 45 x 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.



As far as the electrical safety is concerned, the protection against unintentional contact of the connected and therefore electrically interconnected apparatus and the insulation of the feed cables must be designed for the highest voltage, which can occur in the device.

Settle length x of the conductor: 8 mm



Wiring examples: see appendix



To avoid EMC disturbances, the physical ambient and operational conditions at the place where the product is installed, must meet the provisions laid down in the paragraph "Electromagnetic Compatibility (EMC)" of EN 60204-1.

5. Operating principle and settings

5.1 LED functions

- K1: Status channel 1
- K2: Status channel 2
- K3: Status delayed enabling circuit (LED is ON, when the delayed enabling circuits 37-38 are closed)
- K4: Status delayed enabling circuit (LED is ON, when the delayed enabling circuits 47-48 are closed)
- U_B: Status operating voltage (LED is on, when the operating voltage on the terminals A1-A2 is ON)
- Start: LED is briefly on at the start-up of the safety-monitoring module

5.2 Description of the terminals (see Fig. 1)

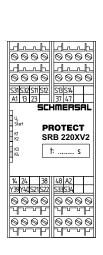
Voltages:	A1	+24 VDC / 24 VAC
	A1.1	+24 VDC / 24 VAC
	A2	0 VDC / 24 VAC
Inputs:	S11-S12	Input channel 1 (+)
	S11-S32	Input channel 2 (+)
	S21-S22	Input channel 2 (–) (with cross-wire short
		detection)
	S31-S32	Input channel 2 (+) (with cross-wire short
		detection)
Outputs:	13-14	First safety enabling circuit (STOP 0)
	23-24	Second safety enabling circuit (STOP 0)
	37-38	Third safety enabling circuit (STOP 1)
	47-48	Fourth safety enabling circuit (STOP 1)
Start:	S33-S34	Feedback circuit and external reset (monitored)
	S13-S14	Automatic start
	Y39-Y40	Reset timer

Opening the front cover (see Fig. 2)

- To open the front cover, insert a slotted 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 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!



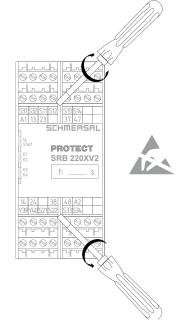


Fig. 1

Fig. 2

Time setting (see Fig. 3 and 4)

- DIP switch settings:
- The DIP switches are located underneath the front cover of the safety-monitoring module (see Fig. 3 and 4).
- Both DIP switches SW 1 (channel 1) and SW 2 (channel 2) must be set identically.
- The DIP switches can be set when the operating voltage is on; however, in order for the setting to be saved in the SRB220XV2, the voltage supply must be interrupted for approx. 3 seconds.





Fig. 3



New adjustable drop-out delays and cross-wire short monitoring for version V.2! See Fig. 4. Tolerance ± 2%

DIP switch setting	Drop-out delay	DIP switch setting	Drop-out delay
1 2 3 4	<0,1 s	CN 1 2 3 4	5.0 s
CN	0.5 s	CN	8.5 s
1 2 3 4	1.0 s	CN 1 2 3 4	10.0 s
CN 1 2 3 4	1.5 s	1 2 3 4	12.0 s
1 2 3 4	2.0 s	ON	15.0 s
1 2 3 4	2.5 s	CN	20.0 s
1 2 3 4	3.0 s	0N	25.0 s
CN	4.0 s	1 2 3 4	30.0 s

Fig. 4

5.3 Notes

Reduction of the delay time (see Fig. 5)

- To enable a premature ending of the drop-out delay, an NC contact must be installed at the pins Y39-Y40.
- If the feedback circuit is not required, establish a bridge.

Delayed enabling circuits (see Fig. 6)

- The drop-out delay of the safety enabling circuits 37-38 and 47-48 can be set within the range of 0...30 seconds by means of DIP switches.
 The DIP switches are located underneath the front cover of the safety-monitoring module.
- The safety enabling circuits 37-38 and 47-48 meet STOP category 1 to EN 60204-1.
- The safety enabling circuits 13-14 and 23-24 meet STOP category 0 to EN 60204-1.



5.4 Setting report SRB220XV2 / V.2

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-monitor	ing module is used in the	following machine:	
Machine n°	Machine type	Module n°	
Set drop-out delay:			
Set on (date)	 Signature of the resp 	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.
- 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



The device has to be integrated into the periodic check-ups according to the Ordinance on Industrial Safety and Health, however at least 1 × year.

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. Push up the bottom of the enclosure and hang out slightly tilted forwards.

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 contacts A and B, where at least one is a positive break contact; with external reset button $\[\mathbb{R} \]$ (see Fig. 7)

- 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.

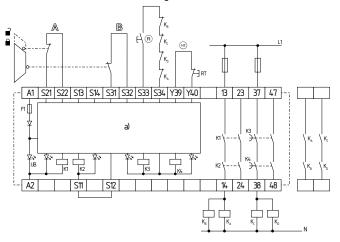


Fig. 7

a) Channel control

F1 = Internal electronic fuse, tripping current > 0.9 A

(H2) = Feedback circuit

RT = Reset Timer, shortening the delay time

8.2 Start configuration

External reset button (with edge detection) (see Fig. 8)

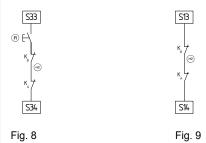
- The external reset button is integrated as shown.
- The safety-monitoring module is activated by the reset (after release)
 of the reset button (= detection of the trailing edge). Faults in the reset
 button, e.g. welded contacts or manipulations which could lead to an
 inadvertent restart, are detected in this configuration and will result in
 an inhibition of the operation.

Automatic start (see Fig. 9)

- The automatic start is programmed by connecting the feedback circuit to the terminals. If the feedback circuit is not required, establish a bridge.
- Caution: Not admitted without additional measure due to the risk of gaining access by stepping behind!
- Caution: Within the meaning of EN 60204-1 paragraph 9.2.3.4.2, the operating mode "automatic start" is only restrictedly admissible. In particular, any inadvertent restart of the machine must be prevented by other suitable measures.



Due to the operating principle of the electronic fuse, the customer must check that no hazard is caused by an unexpected restart in circuits without reset button (automatic reset).



8.3 Sensor configuration

Dual-channel control of a safety-related electronic (microprocessorbased) safety guard with p-type transistor outputs e.g. AOPD's to EN IEC 61496 (see Fig. 10)

- Wire breakage and earth leakage in the control circuits are detected.
- The safety-monitoring module therefore is not equipped with a crosswire short detection here. The safety-monitoring module therefore is not equipped with a cross-wire short detection here.
- If cross-wire shorts in the control circuits are detected by the safety guard:
- Cat. 4 PL e according to EN ISO 13849-1 achievable

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

- Wire breakage and earth le akage in the control circuits are detected.
- Category 2 PL d to EN ISO 13849-1 possible

Dual-channel emergency stop circuit with command devices to EN ISO 13850 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 not detected.
- Cat. 4 PL e according to EN ISO 13849-1 only achievable with protected cable routing

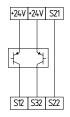


Fig. 10



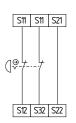


Fig. 11

Fig. 12

Dual-channel emergency stop circuit with command devices to EN ISO 13850 and EN 60947-5-5 (Fig. 13)

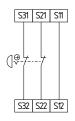
- Wire breakage and earth leakage in the control circuits are detected.
- · Cross-wire shorts between the control circuits are detected.
- Cat. 4 PL e according to EN ISO 13849-1 achievable

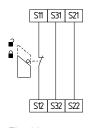
Single-channel guard door monitoring circuit with interlocking devices to EN ISO 14119 (Fig. 14)

- At least one contact with positive break required.
- Wire breakage and earth le akage in the control circuits are detected.
- Cat. 1 PL c according to EN ISO 13849-1 achievable

Dual-channel guard door monitoring circuit with interlocking device to EN ISO 14119 (see Fig. 15)

- · 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 not detected.
- Cat. 4 PL e according to EN ISO 13849-1 only achievable with protected cable routing





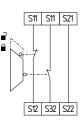


Fig. 13

Fig. 14

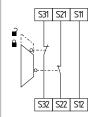
Fig. 15

Dual-channel guard door monitoring circuit with interlocking device to EN ISO 14119 (see Fig. 16)

- · 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.
- Cat. 4 PL e according to EN ISO 13849-1 achievable

Monitored dual-channel safety guard: dual-channel safety guard monitoring to EN ISO 14119 with at least one positive-break position switch and automatic start (Fig. 17)

- This control system recognises wire breakage and earth faults in the quard monitoring circuits.
- Cross-wire shorts between the guard monitoring circuits are detected.
- A time of approx. 500 ms is tolerated between the opening of the contacts S13-S14 and the closing of S21-S22 and S31-S32.
- Cat. 4 PL e according to EN ISO 13849-1 achievable



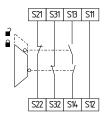


Fig. 16

Fig. 17

8.4 Actuator configuration

Single-channel control with feedback circuit (Fig. 18)

- 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. 19)

- Suitable for increase in capacity or number of contacts by means of contactors or relays with positive-guided contacts.
- (e) = feedback circuit:

 If the feedback circuit is not required, establish a bridge.

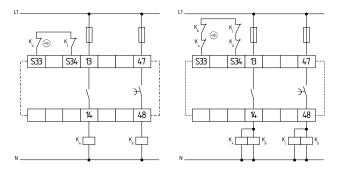


Fig. 18

Fig. 19

9. EU Declaration of conformity

EU Declaration of conformity

9 SCHMERSAL

Original K.A. Schmersal GmbH & Co. KG

Möddinghofe 30 42279 Wuppertal Germany

Internet: www.schmersal.com

We hereby certify that the hereafter described components both in their basic design and construction conform

to the applicable European Directives.

Name of the component: SRB220XV2 / V.2

Description of the component: Safety-monitoring module for emergency stop circuits and

guard door monitoring

Relevant Directives: Machinery Directive 2006/42/EC

EMC-Directive 2014/30/EU RoHS-Directive 2011/65/EU

Applied standards: EN 60947-5-1:2004 + AC:2005 + A1:2009,

EN 60947-5-1:2017, EN ISO 13849-1:2015, EN ISO 13849-2:2012

Notified body, which approved the full quality assurance sys-

tem, referred to in Appendix X,

2006/42/EC:

TÜV Rheinland Industrie Service GmbH

Am Grauen Stein, 51105 Köln

ID n°: 0035

Person authorised for the compilation

of the technical documentation:

Oliver Wacker Möddinghofe 30 42279 Wuppertal

Place and date of issue: Wuppertal, November 8, 2021

> Authorised signature Philip Schmersal Managing Director

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SRB220XV2V2-E-EN

The currently valid declaration of conformity can be downloaded from the internet at products.schmersal.com.





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