

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. Subject to technical modifications.



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The entire concept of the control system, in which the safety component is integrated, must be validated to EN ISO 13849-2.

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 DIN EN 574 must be

EN

Operating instructions Safety-monitoring module

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:

SRB 201ZH X3

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 two actuating elements A + B and correspond to a type III/C two-hand control to DIN EN 574.

The safety function is defined as the opening of the enabling circuits 13-14 and 23-24 when one or both actuating elements A + B are released. The safety-relevant current paths with the output contacts 13-14 and 23-24 meet the following requirements under observation of a PFH value assessment (also refer to chapter 2.5 "Safety classification"): – control category 4 – PL e to DIN EN ISO 13849-1

- corresponds to SIL 3 to DIN EN 61508-2

(corresponds to 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

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General data	
Standards:	IEC/EN 60204-1, EN 60947-5-1;
	EN ISO 13849-1, IEC 61508
Climate resistance:	EN 60068-2-78
Fixing:	Snaps onto standard DIN rails to DIN
C C	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:	200 g
Start conditions	Automatic
Feedback circuit (Y/N):	Yes

	typ. 50 ms
automatic start:	h.m. 20 mg
Response time: Simultaneity monitoring:	typ. 30 ms max. 0,5 s
Bridging in case of	typ. 30 ms
voltage drops:	
Mechanical data	
Connection type:	Screw terminals
Cable section:	min. 2 mm ² / max. 2 mm ²
Connecting cable:	rigid or flexible 0.6 Nm
Tightening torque for the terminals:	0.0 Mill
With removable terminals (Y/N):	No
Mechanical life:	10 million operations
Electrical life:	Derating curve available on request
Resistance to shock:	10 g / 11 ms
Resistance to vibrations	10 55 Hz, amplitude 0.35 mm
to EN 60068-2-6:	
Ambient conditions	
Ambient temperature: Storage and transport	-25°C +60°C -40°C +85°C
temperature:	
Protection class:	Enclosure: IP 40
	Terminals: IP 20 Wiring compartment: IP 54
Air clearances and creepage	4 kV/2 (basic insulation)
distances to IEC/EN 60664-1:	`````
EMC rating:	to EMC Directive
Electrical data	may 100 m0
Contact resistance in new state: Power consumption:	max. 100 mΩ max. 1.5 W
Rated operating voltage U_{e1} :	24 VDC –15%/+10%,
	residual ripple max. 10%
Max. fuse rating of the	Internal electronic trip,
operating voltage:	tripping current > 1.0 mA F3: 1.0 A external
Monitored inputs	
Cross-wire detection (Y/N):	Yes
Cross-wire detection (Y/N): Wire breakage detection (Y/N):	Yes
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N):	Yes Yes
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts:	Yes Yes 2
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts:	Yes Yes 2 2
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts:	Yes Yes 2
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts:	Yes Yes 2 2 1.500 m with 1,5 mm ²
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ²
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of auxiliary contacts:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of auxiliary contacts: Number of signalling outputs:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of auxiliary contacts: Number of signalling outputs: Switching capacity of	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24:
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of auxiliary contacts: Number of signalling outputs:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of auxiliary contacts: Number of signalling outputs: Switching capacity of	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24:
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of auxiliary contacts: Number of signalling outputs: Switching capacity of the safety contacts:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring)
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of safety contacts: Number of signalling outputs: Switching capacity of the safety contacts: Switching capacity of the auxiliary contacts:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V / 10 mA 31-32: 24 VDC / 2 A
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of safety contacts: Number of signalling outputs: Switching capacity of the safety contacts: Switching capacity of the auxiliary contacts: Fuse rating of the	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V / 10 mA 31-32: 24 VDC / 2 A external (I _k = 1000 A) to EN 60947-5-1
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of safety contacts: Number of signalling outputs: Switching capacity of the safety contacts: Switching capacity of the auxiliary contacts:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V / 10 mA 31-32: 24 VDC / 2 A
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Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of auxiliary contacts: Number of signalling outputs: Switching capacity of the safety contacts: Fuse rating of the safety contacts:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V / 10 mA 31-32: 24 VDC / 2 A external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 8 A quick blow, 6,3 A slow blow external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 2,5 A quick blow,
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of auxiliary contacts: Number of signalling outputs: Switching capacity of the safety contacts: Fuse rating of the safety contacts: Recommended fuse for the auxiliary contacts:	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V / 10 mA 31-32: 24 VDC / 2 A external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 8 A quick blow, 6,3 A slow blow external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 2,5 A quick blow, 2 A slow blow
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of auxiliary contacts: Number of signalling outputs: Switching capacity of the safety contacts: Fuse rating of the safety contacts: Recommended fuse for the auxiliary contacts: Utilisation category	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V / 10 mA 31-32: 24 VDC / 2 A external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 8 A quick blow, 6,3 A slow blow external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 2,5 A quick blow,
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Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of safety contacts: Number of signalling outputs: Switching capacity of the safety contacts: Switching capacity of the auxiliary contacts: Fuse rating of the safety contacts: Recommended fuse for the auxiliary contacts: Utilisation category to EN 60947-5-1: Dimensions (H/W/D):	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V / 10 mA 31-32: 24 VDC / 2 A external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 8 A quick blow, 6,3 A slow blow external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 2,5 A quick blow, 2 A slow blow AC-15 / DC-13: EN 60947-5-1 100 mm x 22.5 mm x 121 mm
Cross-wire detection (Y/N): Wire breakage detection (Y/N): Earth leakage detection (Y/N): Number of NO contacts: Number of NC contacts: Cable lengths: Conduction resistance: Outputs Number of safety contacts: Number of safety contacts: Number of signalling outputs: Switching capacity of the safety contacts: Switching capacity of the auxiliary contacts: Fuse rating of the safety contacts: Recommended fuse for the auxiliary contacts: Utilisation category to EN 60947-5-1: Dimensions (H/W/D):	Yes Yes 2 2 1.500 m with 1,5 mm ² 2.500 m with 2,5 mm ² max. 40 Ω 2 1 0 13-14; 23-24: max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V / 10 mA 31-32: 24 VDC / 2 A external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 8 A quick blow, 6,3 A slow blow external (I _k = 1000 A) to EN 60947-5-1 Safety fuse 2,5 A quick blow, 2 A slow blow AC-15 / DC-13: EN 60947-5-1 100 mm x 22.5 mm x 121 mm al are applicable when the component

Pull-in delay for

SRB 201ZH X3

typ 50 ms

 [–] corresponds to SILCL 3 to DIN EN 62061

2.5 Safety classification

Standards:	EN ISO 13849-1, IEC 61508, EN 60947-5-1, DIN EN 574
PL:	up to e
Control category:	up to 4
PFH-value:	≤ 2,00 x 10 ⁻⁸ /h
SIL:	up to 3
Service life:	20 years

The PFH value of 2.00×10^{-8} /h applies to the combinations of contact load (current through enabling contacts) and number of switching cycles (n-op/y) mentioned in the table below.

At 365 operating days per year and a 24-hours operation, this results in the below-mentioned switching cycle times (t-cycle) for the relay contacts. Diverging applications upon request.

Contact load:	n-op/y	t-cycle (s / min)	
20%	525,600	60 s / 1,0 min	
40%	210,240	150 s / 2,5 min	
60%	75,087	420 s / 7,0 min	
80%	30,918	1020 s / 17 min	
100%	12,223	2580 s / 43 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 DIN rail and push up until it latches in position.

3.2 Dimensions

All measurements in mm.

Device dimensions (H/W/D): 100 x 22.5 x 121 mm

4 Electrical connection

4.1 General information for electrical connection

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.



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

Wiring examples: see appendix

5 Operating principle and settings

5.1 LED functions

- · K1: Status channel 1
- K2: Status channel 2
- UB: Status operating voltage (LED is on, when the operating voltage on the terminals A1-A2 is ON)

5.2 Description of the terminals

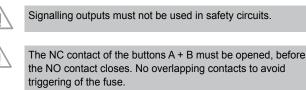
Voltages:	A1	+24 VDC
	A1.1	+ 24 V
	A2	0 VDC
	A2.1	0 V
Inputs:	S11	Input channel 1 (+)
	S21	Input channel 2 (-)
Outputs:	13-14	First safety enabling circuit
	23-24	Second safety enabling circuit
Start:	Y1-Y2	Feedback circuit
	31-32	Auxiliary NC contact



Fig. 1

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5.3 Notes



The pushbuttons A + B must be actuated within a timeframe of < 0.5 sec (simultaneous operation monitoring), otherwise no start enabling signal is given!

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 1x/year.

Damaged or defective components must be replaced.





Operating instructions Safety-monitoring module

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 with two pushbuttons A and B (see 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.
- 🐵 = Feedback circuit

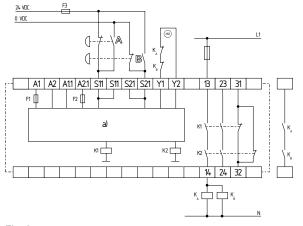
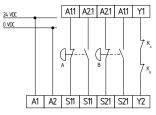


Fig. 2 a) Logic

8.2 Sensor configuration

Two-hand control to DIN EN 574 and EN 60204-1 (see Fig. 3)

- Malfunctions of every contact as well as earth leakages and cross-wire shorts are detected.
- Feedback circuit: the safety-technical function of external positive-guided contactors is monitored by a series-wiring of the NC contacts with the terminals Y1 and Y2. In idle state, this circuit must be closed.
- Safety category III/C to DIN EN 574
- Category 4 PL "e" to DIN EN ISO 13849-1 possible





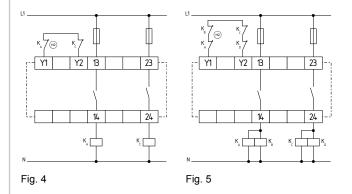
8.3 Actuator configuration

Single-channel control with feedback circuit (Fig. 4)

- 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. 5)

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



Differentiated control with feedback circuit (Fig. 6)

- 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.

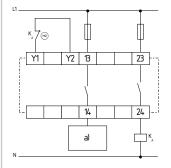
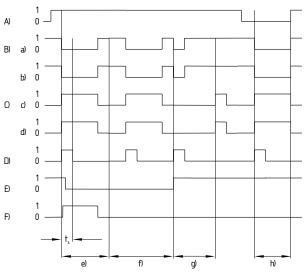


Fig. 6 a) Enabling signal controller

Operating instructions Safety-monitoring module

8.4 Flow diagram





- A) Operating voltage U_B;
- B) Two-hand button A: the representation is related to the potentials at the terminals of the safety-monitoring module; a) NC contact S11; b) NO contact S11;
- C) Two-hand button B: the representation is related to the potentials at the terminals of the safety-monitoring module; c) NC contact S21; d) NO contact S21;
- D) Simultaneity monitoring t_s (synchronous actuation);
- E) Feedback circuit Y1-Y2;
- F) Output contacts 13-14, 23-24 potential-free;
- e) Trouble-free operating cycle $t_s \le 0.5$ s;
- f) Fault in feedback circuit;
- g) Synchronous actuation fault t_s > 0.5 s; h) Fault button A, B before $U_{\rm B}$ in

Appendix

EC Declaratio	on of conformity	
Translation of the origina valid as of December 29, 200	l declaration of conformity 99	Elan Schaltelemente GmbH & Co. KG Im Ostpark 2 · 35435 Wettenberg Germany Internet: www.elan.de
	hereafter described safety co the applicable European Direc	mponents both in its basic design and tives.
Name of the safety con	nponent:	SRB 201ZH X3
Description of the safe	ty component:	Safety-monitoring module for type III/C two-hand controls to DIN EN 574
Harmonised EC-Directi	ves:	2006/42/EC EC-Machinery Directive 2004/108/EC EMC-Directive
Person authorized for t of the technical docum		Ulrich Loss Möddinghofe 30 42279 Wuppertal
Notified body, which ag quality assurance syste Appendix X, 2006/42/E0	em, referred to in	TÜV Rheinland Industrie Service GmbH Alboinstraße 56 12103 Berlin ID n°: 0035
Place and date of issue	r.	Wuppertal, October 6, 2009
		Authorised signature Heinz Schmersal Managing Director

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

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