WSU 26/2 – WEU 26/2 Photoelectric Safety Switch





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Standards and Regulations

To be observed in use and installation



Warning

Failure to observe may result in dangerous operation

Usage



Information regarding how to use the product correctly and efficiently

Approvals

EU Europe

EC prototype test conducted by

BG - Berufsgenossenschaft

- (Trade association)
- Fachausschuß Eisen und Metall III (Technical committee for iron and metal III) Graf-Recke-Str. 69 D-40239 Düsseldorf

Approval number: 97074



Generally recognized technical regulations and quality assurance system ISO 9000 are carefully applied during the development and production of SICK products.

This technical description must be observed when installing and commissioning the WSU 26/2 - WEU 26/2. Inspection and commissioning must be carried out by specialists, if this is specified in the directives or guidelines.

1 General Introduction

1 General Introduction

The WSU 26/2 / WEU 26/2 photoelectric safety switch is a single-beam non-contact protective system. It consists of a WSU light sender and a WEU light receiver. The light beam between the emitting and receiving units provides access protection for hazardous areas.

The safety switch is designed for industrial applications. Its features include

- universal usability
- easy installation
- solid construction
- heated front screen, i.e. it can be deployed even in unfavorable ambient conditions.

The WSU/WEU complies with safety requirements according to pr EN 50.100, safety category type 4.

The following key data are applicable in practical use:



Fig. 1: System construction of the WSU 26/2 / WEU 26/2 photoelectric safety switch

3 Description of Function

SICK WSU 26/2 - WEU 26/2

2 Device/System Construction

The WSU/WEU comprises:

WSU 26/2 sender unit and
WEU 26/2 receiver unit

Each complete break in the light beam between the light sender and light receiver triggers a signal which can be used to immediately stop the dangerous movement of the power-driven machinery (abbreviated as "PDM"). The WSU 26/2 / WEU 26/2 serves as a protective cut-off device to protect hazardous areas on powerdriven machinery. The machinery may be:

- plastics machinery
- stackers
- settling machinery in the stoneworking industry
- machining centers



The WSU/WEU 26/2 must not be used as a hand or finger guard.

3 Description of Function

The WSU and WEU are mounted separately in die-cast housings. Each has its own power supply (*Fig. 2*). The WSU contains a clock generator and the sender diode. The diode emits infrared pulses at the clock rate set by the generator, which are evaluated by the receiver unit WEU if the light path is uninterrupted.

The WEU contains the output relays A and B, which pick up if the light path is uninterrupted. If the light path or the connection between terminals 10 and 11 on the WSU is interrupted (testing), both relays are released.



Fig. 2: Principle of function of the WSU/WEU 26/2, AC version

4 Possible Areas of Application

4 Possible Areas of Application and Application Conditions

4.1 Possible Areas of Application

The WSU/WEU provides access protection for hazardous areas (*Fig. 3*).

4.2 Application Conditions

Safe cut-off can only be effected when the light beam diameter of 23 mm is fully covered.

The protective function of the WSU/WEU is ensured when the conditions set out in the adjacent box are met.

The power-driven machinery ("PDM") must be controllable by electrical means.

The dangerous movement of the machine must be able to be stopped at any time.

The WSU/WEU must be positioned so that entry into the hazardous area is only possible by breaking the light beam.

The *command unit* must be positioned so that it cannot be activated from the hazardous area.

5 Mechanical Arrangement

SICK WSU 26/2 - WEU 26/2

5 Mechanical Arrangement and Mounting

5.1 Safety distance

The WSU/WEU must be attached such that, if the light beam is broken during hazardous movement of the machinery, the point-of-operation can only be reached when this hazardous movement has ceased. For this purpose, a safety distance S must be maintained between the nearest boundary of the point-of-operation and the light beam (*Fig. 4*). The safety distance depends on the machine stopping time and on the approach speed of the personnel.

The machine stopping time must be determined by repeating measurements under practical conditions. 1.6 m/s is the recommended approach speed. The safety distance is calculated as follows:

$S = v (t_1 + t_2) + C$

S Safety distance (mm)

- v Approach speed 1.6 m/s
- t, Machine stopping time (ms)
- t, Response time of WEU (22 ms)
- C Dependent on number of beams
 - (1, 2, or 3), see Table 1



Fig. 4: Safety distance to light beam

Table 1 shows which C value must be used for which application.

Number of beams	1	2	3	
Height of beam(s)	750	400	300	
above floor (mm)		900	700	
			1100	
С	1200	850	850	

Table 1: Height of beams above floor



pr EN 999 Safety of machinery Approach speed of body parts for arrangement of protective systems The WSU/WEU must be attached such that, if the light beam is broken during hazardous movement of the machinery, the pointof-operation can only be reached when the power-driven machinery is no longer in a hazardous state.

For this purpose, a safety distance must be maintained between the light beam and the nearest boundary of the point-of-operation. This safety distance is determined according to pr EN 999.

People within the hazardous area but outside the light beam are not detected. It must, however, be ensured that any hazardous state can only be initiated when there is no one in the hazardous area.

Use and mounting of the protective systems is subject to the relevant official rules and regulations. These provisions differ depending on the area of application.

5.2 Mechanical Mounting

The WSU and WEU units can be mounted on one of the sides of their housing or using the mounting bracket, depending on site circumstances. The mounting bracket greatly assists alignment. The devices can be mounted in any operating position. However, the WSU and WEU should be mounted such that the axis of the light beam emitted by the WSU always matches the axis of the WEU optic (alignment sight).



If, for reasons of space, the devices need to be arranged as shown in *Figures 5 a and b*, hexagon screws must be used.



5.3 Multiple Safeguarding

When using two WSU/WEU units in a protective system, the possibility of mutual interference must be excluded. Since the light beam of the WSU diverges, the cross-section of the beam increases as the distance between the WSU and WEU grows. The following conditions must therefore be met when arranging the WSU/WEU:

5.3.1 Mutual Interference

The light beam of the WSU must only be received by the corresponding WEU. To prevent mutual interference between several WSU/WEU installations arranged adjacent to or above each other, the specified beam diameters must be taken into account when mounting the devices (*Fig. 6*).



There are two versions of the WSU, for operating ranges 0.5 ... 18 m and 15 ... 70 m. The WSU must not be used for operating ranges below 15 m. The operating range is given on the rating plate.



Fig. 6: Safeguarding a hazardous area with WSU/WEU



Fig. 7: Mounting of two WSU/WEU units in series

5.4 Corner mirrors

In conjunction with corner mirrors, the WSU/WEU provides multisided, two-beam access protection (*Fig. 8 and 9*).



Fig. 8: Multi-sided protection of hazardous areas



The use of corner mirrors reduces the scanning range of the WSU/WEU system as cited in the table.

Number of mirrors	Reduced scanning range	Reduced scanning range
	0.5 18 m vvS O	15 /0 m vvS O
1	17 m	67 m
2	15.5 m	61 m
3	13 m	51 m
4	11 m	42 m

Tab. 2: Reduction in scanning range when using corner mirrors



Fig. 9: Two-beam protection with a WSU/WEU 26 system



The use of more than 2 mirrors requires a very accurate alignment.

6 Mounting



6.2 Detecting Reflections

The light beam must not be unintentionally reflected back to the receiver by reflective surfaces. Reflections can be detected as follows:



Cover the light beam between the sender and receiver fully with an obstacle (100 mm x 100 mm) and slowly move the obstacle from the sender unit to the receiver unit.

While this is happening the green LED on the WEU must not light up. If it lights up even just briefly during this check, reflection is occurring.

See also 8. Commissioning.



Fig. 10: Incorrect mounting: reflective object in divergent light beam. No detection of the obstacle due to reflection. No protection.



Fig. 11: Correct mounting, correctly aligned: reflective object outside divergent light beam. No reflection. The obstacle is clearly detected.



Fig. 12: Distance a as a function of scanning range SR

7 Electrical Connection

7 Electrical Connection

7.1 General Introduction

Depending on type, the WSU/WEU 26/2 photoelectric safety switch is available for a supply voltage of

- 24 V DC
- 115 V AC or
- > 230 V AC.

The rating plate gives details.

The two system components must be of the same voltage version and the same scanning ranges. Single- or fine-wire conductors up to 1.5 mm² can be connected to the screwless terminals (to VDE 0607). Stripping length: 11 mm. At least two outputs must be connected to the downstream machine controller (*Fig. 20/21*). Each of the two outputs (NO contacts) must be assigned an electromagnetic switching element.



The electrical connection of the WSU/WEU must only be made or changed with the power disconnected.

Unscrew the housing cover to connect the WSU/WEU with a PG connector.

Before connection, check that the supply voltage and mains frequency on-site are consistent with the specifications on the rating plate.

The cable is fed through the PG connector and connected inside the device, or connected to the equipment plug. The wiring diagram is depicted again on the housing cover of the respective device.

The enclosure rating for the devices can only be guaranteed when the cable is properly clamped in the PG connector and the housing seals fit perfectly. Where long leads are used, the cable cross-sections should be chosen to ensure the devices are always supplied with the required voltage (see Technical Data).

Arc-suppression elements are essential under inductive load! Arc-suppression elements must be connected in parallel with the inductance. Connection in parallel with the output contact is not permitted.

Diodes must **not** be used as arc-suppression elements.





7.2 Wiring Diagram



Connecting leads max. 1.5 mm²

WSU			WEU	
Test contact (10, 1	11)		Outputs (4 - 9)	
Floating	Ú	24 V DC	Umax.	250 V AC
Q	T	10 mA	lmax.	2 A per output
Opening time	t	≥ 50 ms	lmin.	0.02 A per output







16 Fig. 17: Pin assignment WSU/WEU 26/2, AC/DC version with equipment plug (15 + PE)

8 008 692/9-12-99 Technical Description · WSU/WEU 26-2 © SICK AG · Safety Systems · Germany · All rights reserved



Fig. 19: Cable receptacles 15 + PE



Fig. 20: WSU/WEU 26/2 with Safety Interface LCU-X





20 Fig. 22: Example of a connection with one WSU/WEU-26 system



8 Commissioning

SICK WSU 26/2 - WEU 26/2

8 Commissioning

8.1 Alignment of WSU and WEU

After checking the electrical connections, loosen the fixing screws on the WSU/WEU and align the devices to each other roughly using the alignment sight. For further alignment keep pressing button S or jumper terminals 10 and 11 on the WSU and switch on the devices. When this is done the LED on the WSU (yellow LED) lights up (*Fig. 24*).

Align the devices to each other so that the green and yellow LEDs on the WEU light up.

For optimum alignment, ascertain the limits of the emitting and receiving ranges by swiveling the WSU and WEU horizontally and vertically one after the other. Just before the limit of the optical range the yellow LED on the WEU begins to flash (*Fig. 26*). Beyond the optical range the red LED on the WEU lights up.

Then secure the WSU and WEU respectively in the middle of the resulting ranges. The yellow LED on the WEU must be permanently lit.

8.2 Alignment of WSU and WEU with Alignment Aid AR 60

For precise alignment of the WSU and WEU the alignment aid AR 60 is available.

The alignment aid is clamped in front of the WSU and WEU respectively on a bracket (*Fig. 25*), which is mounted underneath the optic and held in place by two screws.

The AR 60 emits a visible laser beam which exactly marks the optical axes of WSU and WEU if they are correctly mounted.

8.3 Checking

Incorrect alignment may mean that an obstacle is not detected or that operational safety is not attained (*Fig. 24*).

The functional safety of the photoelectric safety switch is checked by breaking the light beam continually and along its entire length, from just in front of the WEU back to the WSU (surface area 100 mm x 100 mm). While this check is being performed, the red LED on the WEU must remain continuously lit. If it does not, investigate the diversion of the light beam between the WSU and the WEU (reflection may be occurring, see 6.2 Detecting Reflections).

A function check of this kind must be carried out

- daily prior to start of production,
- after any change in the WSU/ WEU configuration,
- after any servicing or maintenance work on the protective system.







Fig. 25: Laser alignment aid AR 60 and WSU/WEU

9 Maintenance

9 Maintenance

The front screens of the WSU and WEU should be cleaned at regular intervals, according to the site conditions. The screens must only be cleaned with a clean, soft cloth or with cotton wool. Use plastic cleaner as the cleaning agent.

10 Commissioning

Since the WSU/WEU is a protective system, it is recommended that the system be commissioned into operation by an expert. Experts are deemed to be only persons trained in the handling of such safety equipment who are

- employees of SICK,
 employees of SICK subsidiaries and representatives abroad,
- employees of companies who operate large quantities of SICK safety equipment at their premises, provided they have been trained by SICK and have been assigned by their employers to perform such duties.

11 Malfunctions

11.1 Diagnostic Elements

The LEDs on the WSU and WEU indicate the following operating states (*Fig. 26*):

EU	WSU	WEU	
	yellow	green yellow red	



	Continuously lit Off	yellow yellow	Operating voltage applied (test contact closed) No operating voltage applied or test active (For duration of test)
	Continuously lit	green yellow red yellow + red	Light beam of sender unit reaching receiver Sufficient light received Light beam broken, briefly during test Interference of another emitter element
	Flashing	yellow	Insufficient light received, unit still functioning
	Off	green yellow red	No operating voltage applied, light beam broken, test performed Light beam broken, testing performed, no operating voltage applied No operating voltage applied, light received from sender

Tab. 4: Functioning of the LEDs

Simple malfunctions can be rectified by referring to the chart below. Before opening up the units clean the housing thoroughly to prevent dirt entering the interior.



Do not touch any electrical connections when the unit is open and switched on.

Fault	Cause	Testing and remedy
LED on WSU not lit	No power supply	Check voltage
	Break between terminals 10 and 11 (test contact)	Check passage
LED on WSU lit,	No power supply on WEU	Check voltage on WEU
none of the three LEDs on the WEU lit	Break at relay contact Relay defective	Replace unit
The red LED on the WEU	Unit out of alignment	Re-align WSU and WEU units
is permanently lit (no light being received)	Front screen dirty	Clean front screens of WSU and WEU
	Test input (sender) interrupted	Check testing
	Receiver WEU defective	Replace unit
	Sender WSU not emitting	On WSU briefly switch power off and on again (min. 1 s)
	Sender WSU defective	Replace unit
The yellow LED on the WEU flashes	Units or corner mirrors out of alignment	Adjust units or comer mirrors to optimum alignment
(insufficient light being received)	Front screen of WSU/WEU or comer mirror dirty	Clean front screen or corner mirror
The yellow and red LEDs	Electronics activated:	On WEU briefly switch power off and on again (min. 1 s)
on the WEU are permanently lit	Interference of another emitter element	WEU must only respond to the corresponding WSU
	Electronic card defective	Replace unit

12 Technical Data WSU 26/2 / WEU 26/2

12 Technical Data

Dimensions Protective field range 0.5 ... 18 m, 15 ... 70 m Number of beams 1 beam Light beam diameter 23 mm Sender/receiver unit Supply voltage (Uv) 24 V DC ± 20 % 230 V DC ± 10 % / - 15 % 115 V DC ± 10 % / - 15 % Ripple Max. 5 % of U 48 ... 62 Hz with AC version Frequency Input, sender Test contact Test time max. 150 ms Min. opening time of NC contact for test 75 ms Power consumption (typical) 24 V 115 V 230 V Voltage version 4W 7W 7W Sender unit Receiver unit 6 W 10 VA 10 VA Synchronization Optical Relay max. operating frequency 0.2 Hz Outputs (1 operation in 5 s) Switching current (max./min.) 2 A / 0.02 A Switching voltage (max./min.) 250 V AC / 24 V DC ≤ 22 ms Response time IP 67 Connection cable: PG connector: Connection plug: IP 65 Front screen heating As standard Operating data Protection class I IP 65 (connection plug) Enclosure rating IP 67 (PG connector) Satisfies type 4 requirements Safety category Requirements To pr EN 61496 Part I/Part II Ambient operating – 25 ... + 55 °C temperature – 25 ... + 70 °C Storage temperature Air humidity 15 ... 95 % 5 g, 10 ... 55 Hz to IEC 68-2-6 Vibrostability 10 g, 16 ms to IEC 68-2-29 Impact resistance Weight Sender unit Approx. 0.9 ... 1.3 kg Receiver unit Approx. 1.0 ... 1.4 kg

13 Dimensional Drawing





Dimensional Drawing WSU 26/2-xx4 and WEU 26/2-xx4







14 At a glance: What is new about the WSU/WEU 26/2 in relation to the WSU/WEU 26?

Previously: WSU 26 / WEU 26 Now: WSU 26/2 / WEU 26/2

- The optical axis of the WSU/WEU 26/2 is shifted 6 mm toward the device connection.
- There are two terminals for connection of the power supply: terminal 1/2 and terminal 3.
- Voltage versions
 - 230 V AC 115 V AC
 - 24 V DC
- A new adapter is required for AR 60.
- No fiber-optic cable version is available.
- An additional marking on the side identifies the middle of the beam.
- The scanning ranges have changed:

 WSU/WEU 26
 WSU/WEU 26/2

 0.5 ... 30 m
 0.5 ... 18 m

 30 ... 60 m
 15 ... 70 m

For each range segment there is a sender **and** a receiver.

The beam diameter has changed:

WSU/WEU 26 WSU/WEU 26/2 33 mm 23 mm

- Connector version: the previous connector no longer complies with requirements for clearance and creepage distances (VDE 0160 05/ 88 and VDE 0110).
- New front screen: may only be cleaned with plastic cleaner.
- The power consumption has increased:

WSU/WEU 26:

WSU/WEU 26/2: 22 ms



Components of the (new) WSU/ WEU 26/2 system cannot be combined with components of the (old) WSU/WEU 26 system. When exchanging in the event of repair please note that the following combinations are not possible:

WSU 26	with	WEU 26/2
WSU 26/2	with	WEU 26

Exchange in pairs.

WSU/WEU 26	WSU/WEU 26/2	Version
5 VA / 7 VA	7 VA / 10 VA	115/230 V AC
3 W / 5 W	4 W / 6 W	24 V DC
Response tim	e	

20 ms

15 Selection Table

SICK WSU 26/2 - WEU 26/2

15 Selection Table WSU / WEU

Voltage	Scanning	Termination	Sender unit		Receiver unit	
_	range	type	Туре	Order number	Туре	Order number
230 V AC	0.5 18 m	PG	WSU 26/2-110	1 015 615	WEU 26/2-110	1 015 616
		Plug	WSU 26/2-111	1 015 712	WEU 26/2-111	1 015 713
		Plug *)	WSU 26/2-113	1 015 715	WEU 26/2-113	1 015 715
		Plug *)			WEU 26/2-112	1 015 714
		Plug 15 + PE*)	WSU 26/2-114	1 015 834	WEU 26/2-114	1 015 835
	15 70 m	PG	WSU 26/2-210	1 015 731	WEU 26/2-210	1 015 743
		Plug	WSU 26/2-211	1 015 733	WEU 26/2-211	1 015 744
		Plug *)	WSU 26/2-213	1 015 736	WEU 26/2-213	1 015 748
		Plug *)			WEU 26/2-212	1 015 746
		Plug 15 + PE*)	WSU 26/2-214	1 015 840	WEU 26/2-214	1 015 841
	0 5 4 0	DC		4 045 747		4 045 740
TIS V AC	0.5 18 m	PG Dhua	VVSU 26/2-120	1 015 717	VVEU 26/2-120	1 015 7 18
		Plug *)	VVSU 26/2-121	1 015 7 19	VVEU 26/2-121	1 015 720
		Flug *)	VV3U 26/2-123	1 015 725	VVEU 26/2-123	1 015 722
		Plug 15 + PF*)	\ \	1 015 836	WEU 26/2-122	1 015 837
	15 70		VVSU 20/2-121	1 015 030		1 015 740
	15 70 m	PG	VVSU 26/2-220	1 015 738	VVEU 26/2-220	1 015 749
		Plug	VVSU 26/2-221	1 015 740	VVEU 26/2-221	1 015 750
		Plug *)	VVSU 26/2-223	1015/3/	VVEU 26/2-223	1 015 505
		Dlug 15 ± DE*)		1 015 040	VVEU 26/2-222	1 015 751
		Flug 15 + FE*)	VV30 26/2-224	1 015 642	VVEU 20/2-224	1 013 043
24 V DC	0.5 18 m	PG	WSU 26/2-130	1 015 724	WEU 26/2-130	1 015 725
		Plug	WSU 26/2-131	1 015 726	WEU 26/2-131	1 015 727
		Plug *)	WSU 26/2-133	1 015 730	WEU 26/2-133	1 015 729
		Plug *)			WEU 26/2-132	1 015 728
		Plug 15 + PE*)	WSU 26/2-134	1 015 838	WEU 26/2-134	1 015 839
	15 70 m	PG	WSU 26/2-230	1 015 745	WEU 26/2-230	1 015 504
		Plug	WSU 26/2-231	1 015 747	WEU 26/2-231	1 015 753
		Plug *)	WSU 26/2-233	1 015 739	WEU 26/2-233	1 015 755
		Plug *)			WEU 26/2-232	1 015 754
		Plug 15 + PE*)	WSU 26/2-234	1 015 844	WEU 26/2-234	1 015 845

*) See electrical wiring diagram



Selection of plug variant, WSU/WEU

Since 1989 VDE 0160 05/88 and VDE 0110 have stipulated doubled clearance and creepage distances. In the following cases the necessary clearance and creepage distances of the 6-PE Hirschmann connecting plug on the WEU are not met:

Supply voltage WEU	Voltage at WEU output relays	Remarks
230 V AC	230 V AC	Only in case of separated circuits/phases (e.g. L1 to L2)
230 V AC	24 V DC	_
24 V DC	230 V AC	_

In order to meet the VDE requirements for clearance and creepage distances in these cases, the square 15-pin + PE plug must be used.

14.1 Conversion List

WSU to be	Nex type 26/2			
replaced	Scanning range (0.5 18 m	Scanning range 1	l5 70 m
WSU 26-110	WSU 26/2-110	1 015 615	WSU 26/2-210	1 015 731
WSU 26-111	WSU 26/2-111	1 015 712	WSU 26/2-211	1 015 733
WSU 26-112	WSU 26/2-113	1 015 716	WSU 26/2-213	1 015 736
WSU 26-120	WSU 26/2-120	1 015 717	WSU 26/2-220	1 015 738
WSU 26-121	WSU 26/2-121	1 015 719	WSU 26/2-221	1 015 740
WSU 26-130	WSU 26/2-130	1 015 724	WSU 26/2-230	1 015 745
WSU 26-131	WSU 26/2-131	1 015 726	WSU 26/2-231	1 015 747
WSU 26-132	WSU 26/2-133	1 015 730	WSU 26/2-233	1 015 739
WSU 26-210			WSU 26/2-210	1 015 731
WSU 26-211			WSU 26/2-211	1 015 733
WSU 26-212			WSU 26/2-213	1 015 736
WSU 26-220			WSU 26/2-220	1 015 738
WSU 26-221			WSU 26/2-221	1 015 740
WSU 26-230			WSU 26/2-230	1 015 745
WSU 26-231			WSU 26/2-231	1 015 747
WSU 26-232			WSU 26/2-233	1 015 739
1				

WEU to be	New type 26/2				
replaced	Scanning range ().5 18 m	Scanning range 1	l5 70 m	
WEU 26-710	WFU 26/2-110	1 015 616	WFU 26/2-210	1 015 743	
WEU 26-712	WEU 26/2-112	1 015 713	WEU 26/2-211	1 015 744	
WEU 26-713	WEU 26/2-113	1 015 715	WEU 26/2-213	1 015 748	
WEU 26-720	WEU 26/2-120	1 015 718	WEU 26/2-220	1 015 749	
WEU 26-730	WEU 26/2-130	1 015 725	WEU 26/2-230	1 015 504	
WEU 26-731	WEU 26/2-131	1 015 727	WEU 26/2-231	1 015 753	
WEU 26-732	WEU 26/2-132	1 015 728	WEU 26/2-232	1 015 754	
WEU 26-733	WSU 26/2-133	1 015 729	WEU 26/2-233	1 015 755	

16 Selection Table, Accessories SICK WSU 26/2 – WEU 26/2

16 Selection Table, Accessories

Description		Order number		
Alignment aid AR 60 complete	1 015 741			
Adapter for alignment aid AR 60		4 031 156		
Mounting bracket for WSU/WEU		2 007 900		
Corner mirror PSK 1. for scanning rar	nge 0.5 18 m	1 005 229		
Mounting set for PSK 1	0	2 012 473		
Hinged bracket for corner mirror PSk	2 009 292			
Corner mirror PNS 105-1, for scannir	1 004 076			
Corner mirror PSK 45	5 306 053			
Cable receptacle, straight, 6 + PE (pl	6 006 612			
Cable receptacle, angled, 6 + PE (plas	6 006 613			
Cable receptacle, 15 + PE, lateral cab	le outlet, PG 16	2 019 076		
Cable receptacle, 15 + PE, straight ca	ble outlet, PG 13.5	2 019 075		
Arc-suppression element 0.22 μ F + 2	6 001 224			
Arc-suppression element 2.2 μ F + 10	0 Ω (24 V)	6 001 225		
		1 012 110		
Switching ampliner LCO-X	24 V DC	1013410		
Switching amplifier (PILZ)				
Switching amplifier PST 1	24 V DC	6 010 808		
	21 V DC 230 V AC	6 010 809		
	250 1770	0 010 007		
Switching amplifier PST 3	24 V DC	6 008 424		
5	230 V AC	6 008 423		
Switching amplifier PNOZ 8	24 V DC	6 010 810		
0	230 V AC	6 010 811		
PG cable gland PG 21	5 305 978			
for use of 2 cables with PNOZ 8				
PG extension PG 13.5 to PG 21	5 306 052			
for use of 2 cables with PNOZ 8				

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	Fax	+8 52/27 63 63 11
С	zech	Republik
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п	onma	+42702 378 10 339
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