



Operating Instructions



SELECTOR

Type: 270-II/8-VZ

Selectorsystem

325554

278337

Manufacturer:

SCHWANOG

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Annexes

- a. EC Declaration of Conformity



1. Intended use

The selector system is used to collect processed workpieces from processing machines. Cooling lubricant also drips into the collection container, depending on the application. Depending on the type of application, the cooling lubricant can be returned directly to the machine or collected in a tank and then passed on.

Depending on the design, collection containers of different sizes can be used.

The machine must not be operated in the Ex area.

The operating personnel must have appropriate technical understanding and be instructed before using the machine. Maintenance work may only be carried out by qualified electricians.

2. Improper use

Any use contrary to the intended use is prohibited. These include particularly

- Use as a seat or climbing aid
- Use of the machine in the Ex area
- Use of the machine outside the specified limits

(This listing is not thorough, but provides only examples)

3. General safety hints

The Selector may only be operated as intended by qualified and trained personnel. Do not reach into the running machine. During maintenance work, observe the 5 rules of electrical engineering.



According to DIN EN ISO 010, there is a danger of automatic starts on machines and systems. These starts can occur unexpectedly and without warning as soon as a power source is connected or an automatic control is activated.

Automatic starts can lead to serious injuries, occupational accidents or even fatalities. It is therefore extremely important that all employees working with machinery and equipment are aware of the dangers of automatic start-ups and take appropriate protective measures.

All employees should be trained and informed accordingly on how to behave during automatic start-ups and how to switch off the equipment safely.

We ask all employees who work with machines and equipment to take this warning seriously and to take the necessary safety measures to protect themselves and others from the dangers of automatic start-ups.



Attention! Never reach into the running Selector. There is a risk of crushing injuries.



4. Checks before start-up

Before initial operation, a visual inspection for damage and completeness must be carried out. Electrical safety must also be verified in accordance with German Statutory Accident Insurance (DGUV) V3

Before each start-up, a visual inspection for damage and completeness must be carried out.

Regular checks are to be specified by the user in accordance with the statutory provisions.



5. Start-up / Connections / Electrical connections



Electrical start-up may only be carried out by trained personnel.

To connect the selector, depending on the version, you must plug the electrical plug into the corresponding interface/socket.

Only connect the plug connection of the selector or the control to the intended voltage and frequency (110V/60Hz; 200V/60Hz; 230V/50Hz; 400V/50Hz; 480V/50Hz; 480V/60Hz)! There is a risk of death or fire if the voltage or frequency is incorrect!

5.1. Execution

5.1.1. Selector with external control:

Plug the selector into the existing socket on the machine.

The selector is exclusively controlled by the machine. For information about how to program this, please refer to the relevant documentation from the machine manufacturer or ask the machine manufacturer. A corresponding adaptation may have to be purchased from the machine manufacturer.

5.1.2. Selector with timer control:

Plug the selector into the socket on the timer controller. Plug the timer controller plug into the existing socket on the machine.

The selector is controlled via the set time parameters.
Programming the timer control see chapter Programming – timer control.

5.1.3. Selector with quantity control:

Insert the plug of the selector and the pulse generator into the corresponding sockets of the piece count control. Plug the piece count control plug into the existing socket on the machine.

The selector is controlled via the set parameters of the number of items.
Programming of the quantity control see chapter Programming – quantity control.

5.1.4. Selector with external control and oil tank/pan (pump control):

If necessary, plug the selector plug into the pump control, then plug the pump control plug into the existing socket on the machine.

The selector is now exclusively controlled by the machine. For information on how to program this, please refer to the relevant documentation from the machine manufacturer. The oil tank/pan pump is controlled by the pump controller.



5.1.5. Selector with timer control and oil tank/pan (pump control):

Plug the selector into the socket on the timer controller. Plug the timer/pump controller into the existing outlet on the machine.

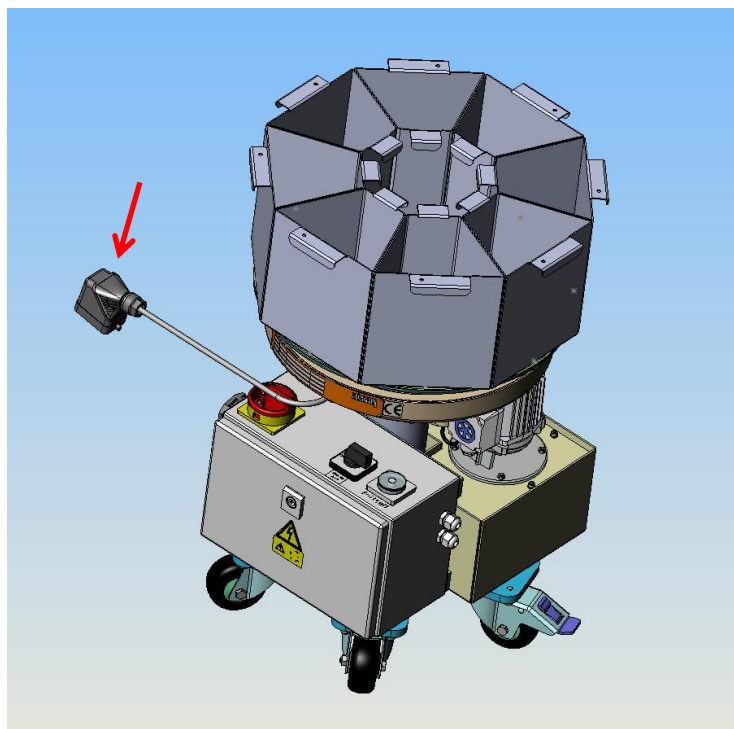
The selector is controlled via the set time parameters.
Programming the timer control see chapter Programming – timer control.
The oil tank/pan pump is controlled by the pump controller.

5.1.6. Selector with quantity control and oil tank/pan (pump control):

Insert the plug of the selector into the corresponding socket of the quantity/pump control and also plug the plug of the pulse generator into the corresponding socket of the control. Plug the control plug into the existing socket on the machine.

The selector is controlled via the set parameters of the number of items. Programming of the quantity control see chapter Programming – quantity control.
The oil tank/pan pump is controlled by the pump controller.

Connect the plug (red arrow) to the corresponding interface/socket.





6. Programming:

6.1. External control / external control with test cup:

The selector is exclusively controlled by the machine. For information about how to program this, please refer to the relevant documentation from the machine manufacturer or ask the machine manufacturer. A corresponding adaptation may have to be purchased from the machine manufacturer.

6.2. Timer control:

The selector is controlled by the clock pulse.

Settings / display:

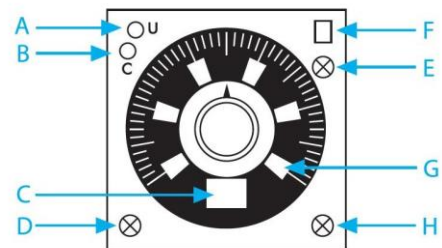
- A: Yellow LED: Operating voltage
- B: Red LED: Time is running (C)
- C: window of selected time (sec/min/h/x10h); Setting on switch H
- F: Selected Function (CE) window; do not change the setting
- G: Selected time scale (sec/min/h/x10h)
- D: See table below (Scale)
- H: See table below (sec/min/h/x10h)

Time scales

Full scale value

D \ H	s	min	h	x10h
0.5	0.5 second	0.5 minute	0.5 hour	5 hour
1	1 second	1 minute	1 hour	10 hour
5	5 second	5 minute	5 hour	50 hour
10	10 second	10 minute	10 hour	100 hour

NOTE: time scales and functions must be set before energising the timer.

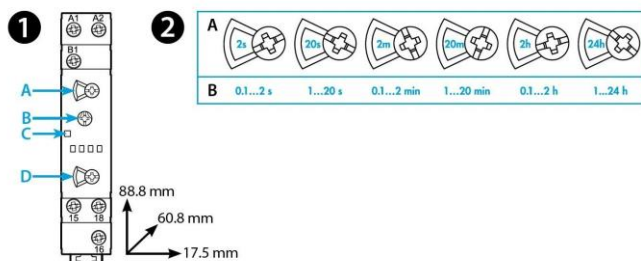


6.3. Timer control with test cup:

The selector is controlled by the clock pulse.

Setting the time clock see point 6.2.

The impulse for the test cup must be set with a screwdriver on the multifunction time relay with the control box open. Please pull the mains plug! Electric shock hazard!



ENGLISH

80.01 MODULAR TIMER, MULTI-FUNCTION

- 1 FRONT VIEW
 - A Time scale rotary selector (Tmax)
 - B Time setting (Tmin...Tmax)
 - C LED
 - D Function rotary selector
- 2 TIME SCALES
 - (Eg. T=10 min: set A=20 m and B=10)



6.4. Quantity control Siemens logo and Siemens logo with test cup:



Display:

- Cup: Display of the counted number of pieces in the cup
- Target value: Display of target content per cup (after the number of pieces has been reached, the selector cycles to the next cup)
- Total Total number of pieces counted

Set target value for number of pieces per cup:

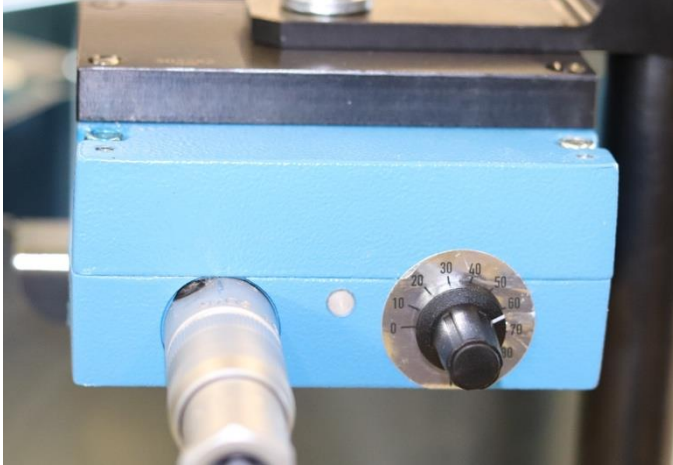
- 'ESC' longer than 3 seconds. Press and hold
- With the arrow key '←' on the target value field
- Press "ENTER".
- With the arrow key '→' on the value to be entered
- With the arrow key '↑' to set the value
- When all digits are set, press 'ENTER'.
- Leave the menu with 'ESC'.

Resetting the counted total number of pieces:

- Hold 'F4' longer than 3 seconds

Resetting the counted number of pieces in the current cup:

- Hold 'F4' longer than 3 seconds

**Settings on the pulse sensor:**

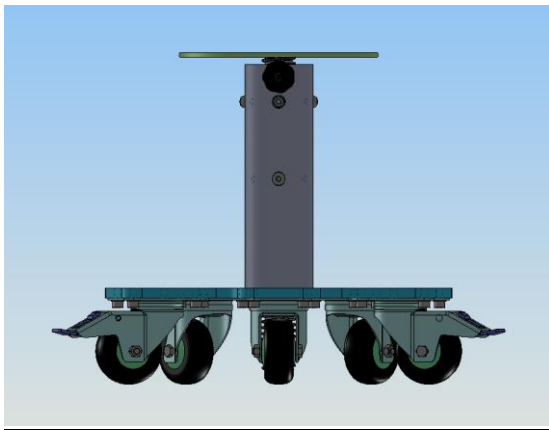
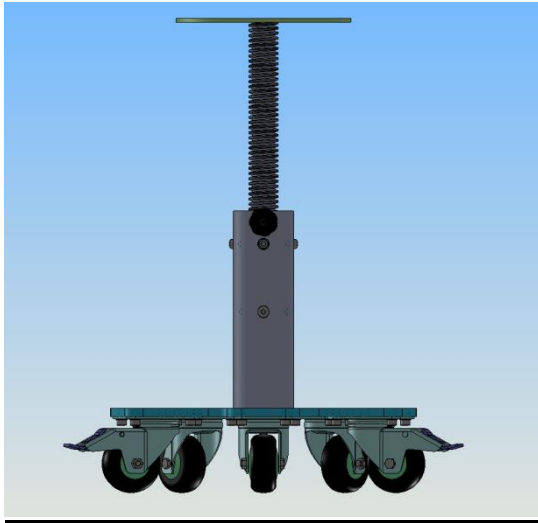
Rotary control for setting the sensor sensitivity

Can be adjusted when changing part size

Caution: Depending on how the sensitivity is set, the distance between the sensor and the cups or the dividing ramp or other metal parts must be increased.



7. Adjusting the selector stand, height adjustable



Laser height adjustment

1. Loosen locking screw
2. Adjust the selector stand upwards by turning it clockwise
3. Adjust the selector stand downwards by turning it counterclockwise
4. After adjustment, tighten the locking screw



8. Removal and installation of the engine

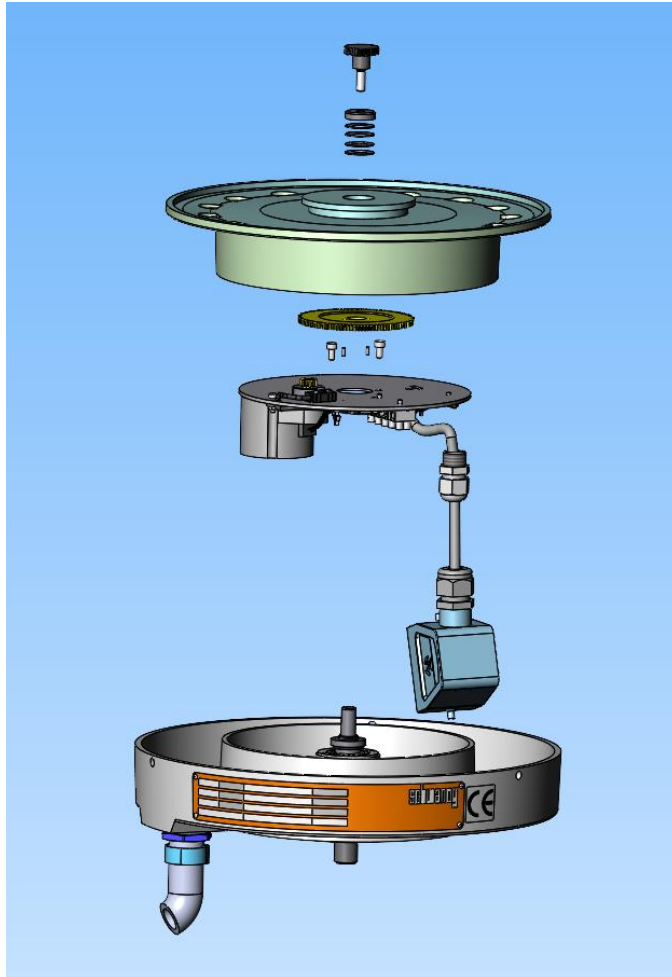


Figure 1

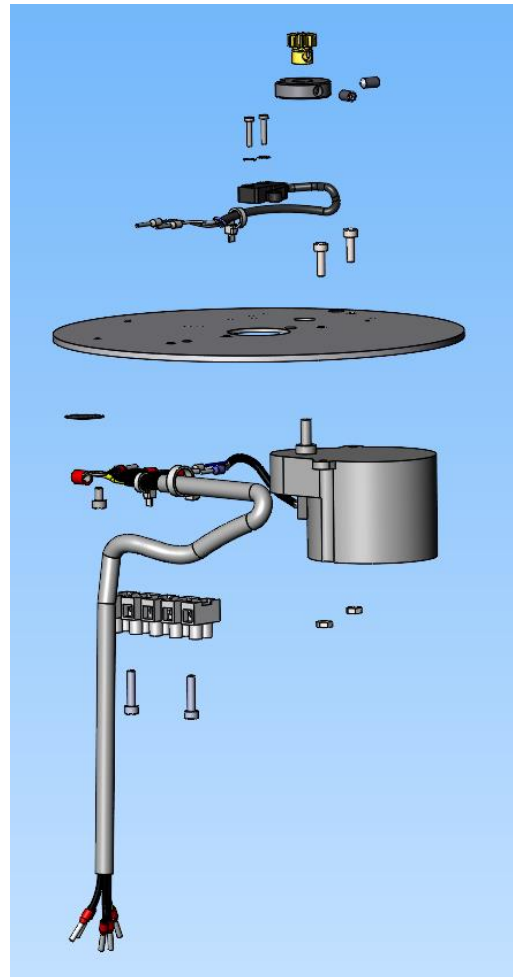


Figure 2

Removal:

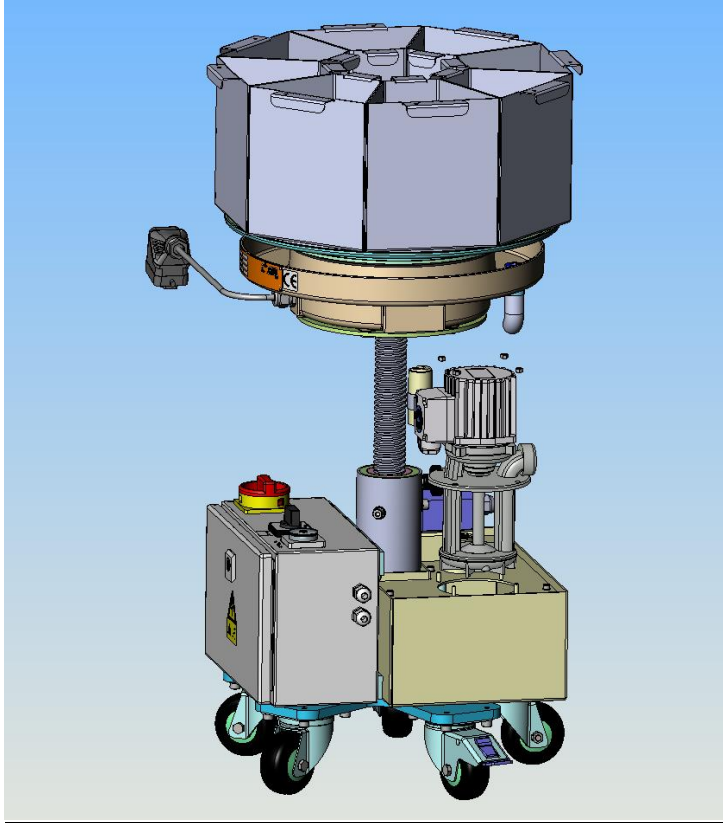
1. Loosen the cable gland on the underside of the selector
2. Open the knurled screw in the center of the plate and remove the tension washer and plate springs (image 1)
3. Remove plate (picture 1)
4. Pull off the gear upwards (picture 1)
5. Open the screws on the control disc and pull off upwards (Image 2)
6. Remove 2 screws in the middle of the carrier plate and take out the carrier plate (image 1)
7. Remove the screws from the motor and take out the motor

Installation:

Assemble in reverse order



9. Removal and installation of the pump



Removal:

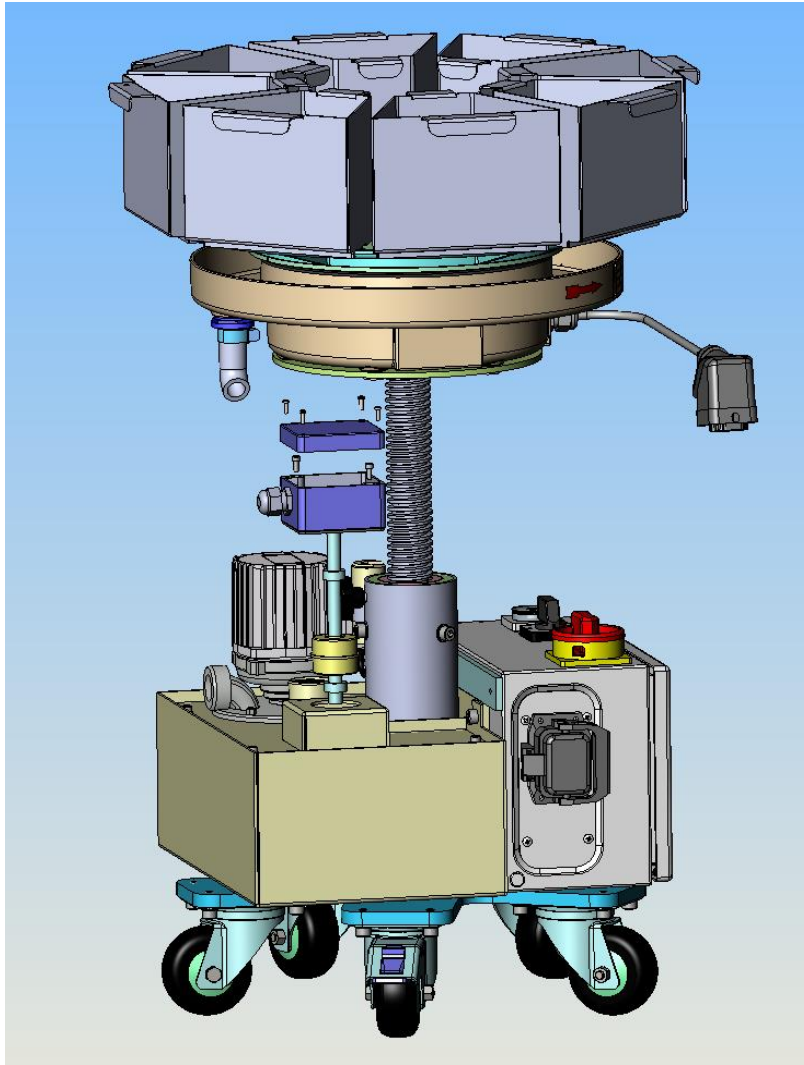
1. Remove nut on flange
2. Lift the pump out

Installation:

In reverse order



10. Removing and installing the float switch

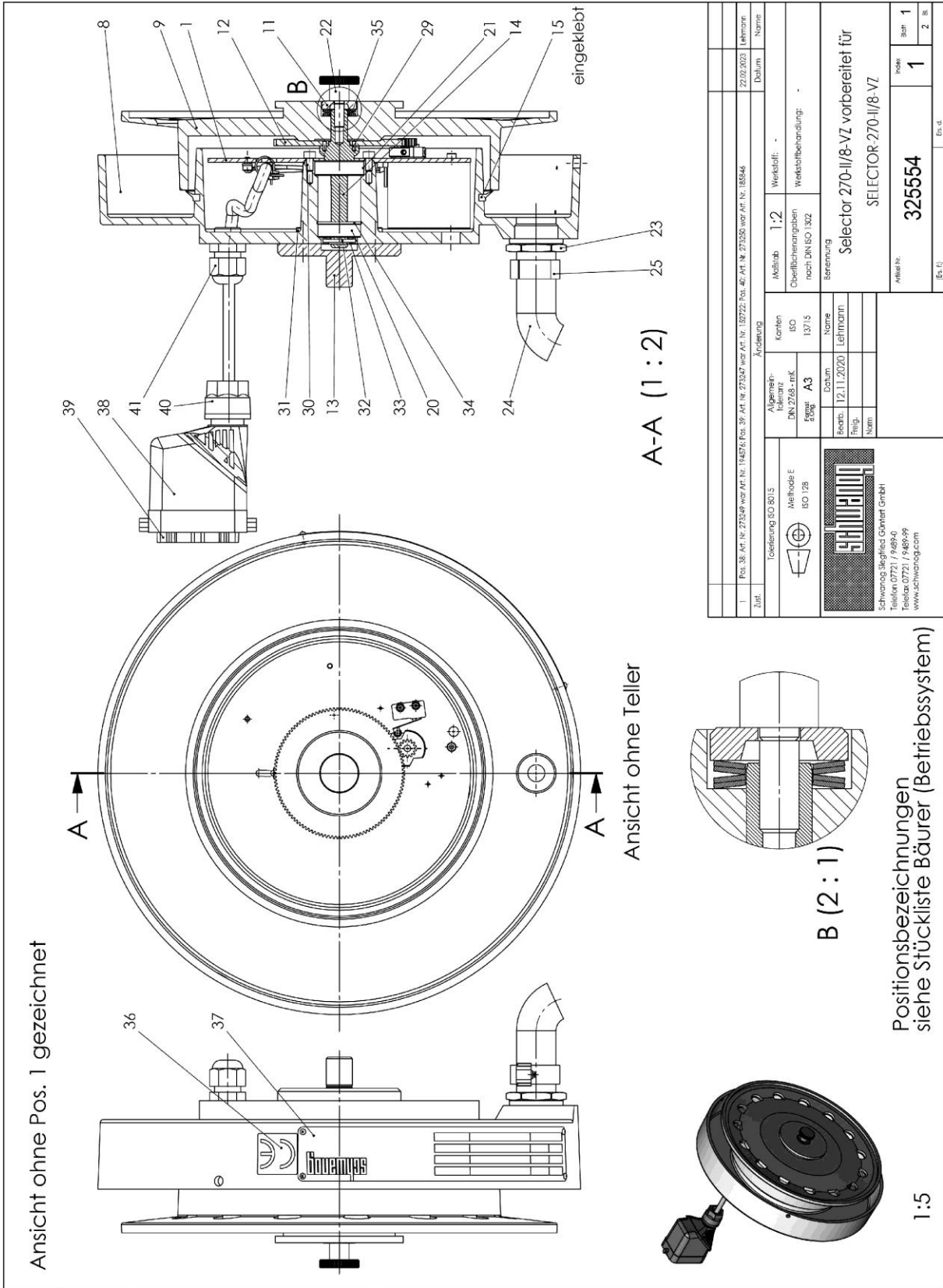


Removal:

1. Remove protective cap
2. Loosen the float switch with an open-end wrench and remove upwards
3. Pull the probe rod out of the tube

Installation:

In reverse order



Ansicht ohne Pos. 1 gezeichnet

Ansicht ohne Teller

B (2 : 1)

1:5

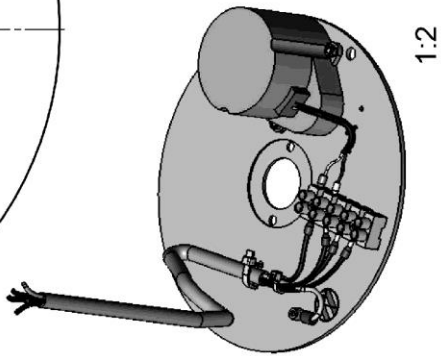
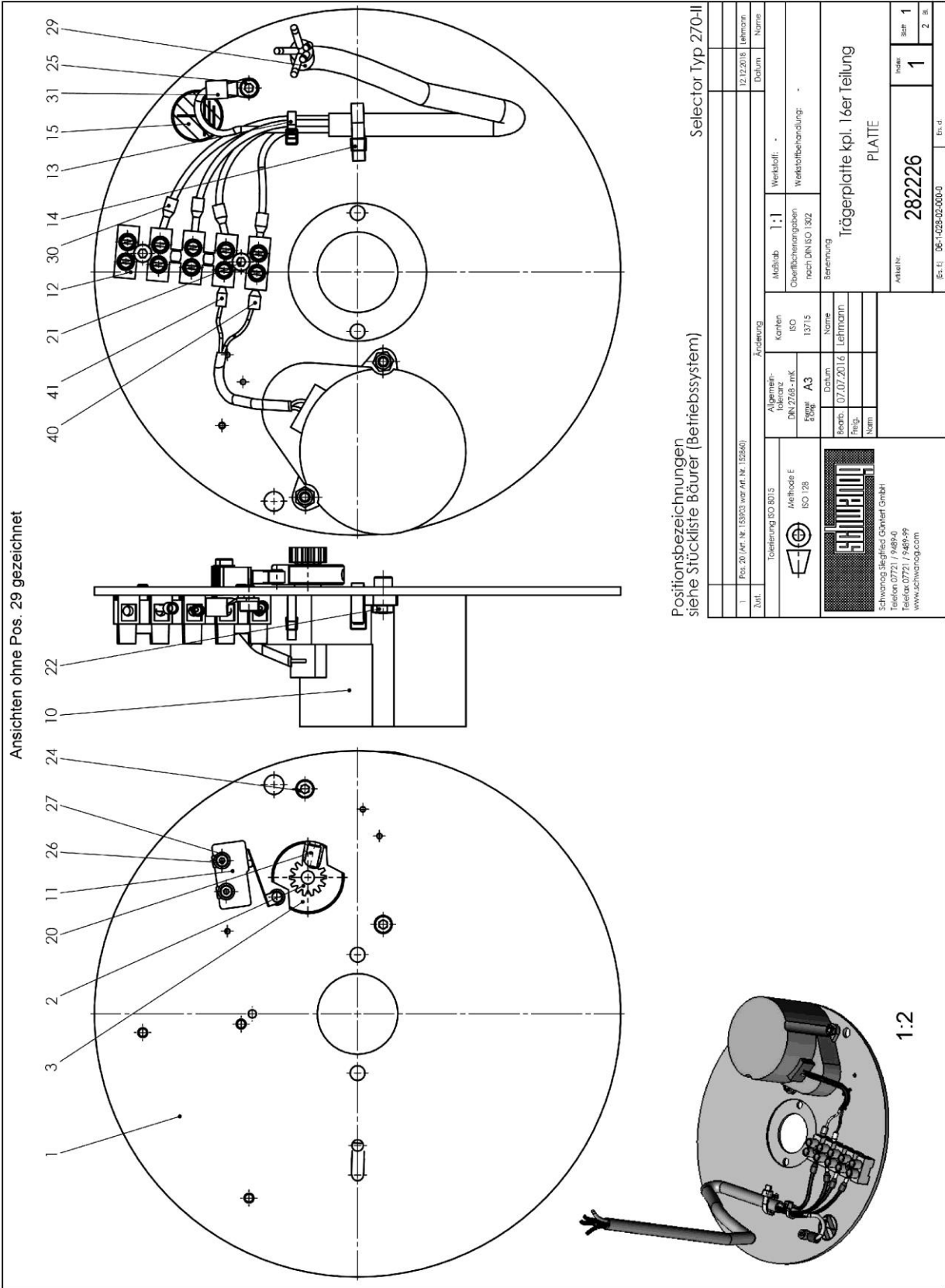
Positionsbezeichnungen
siehe Stückliste Bärer (Betriebssystem)

A-A (1 : 2)

1 Pos. 38: Art. Nr. 271247 wer/AT Nr. 14576; Pos. 39: Art. Nr. 271247 wer/AT Nr. 13722; Pos. 40: Art. Nr. 271250 wer/AT Nr. 18544		22.02.2023 Lehmann	
Zust.		Datum	
Tolerierung ISO 8015		Maßstab 1:2	
Methode E ISO 128		Oberflächenangaben nach DIN ISO 1302	
Schwanog Siegfried Güntert GmbH Tiefen 0721 / 9480-0 Telefax 0721 / 9480-99 www.schwannog.com		Werkstoff: - Werkstoffbehandlung: -	
Datum 12.11.2020		Serenennung	
Name Lehmann		Selector 270-II/8-VZ SELECTOR 270-II/8-VZ	
Arbeits-Nr. 325554		Index 1	
Bsp. 1		Bsp. 1	
Bsp. 2		Bsp. 2	
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Zeichnung für die Fertigung

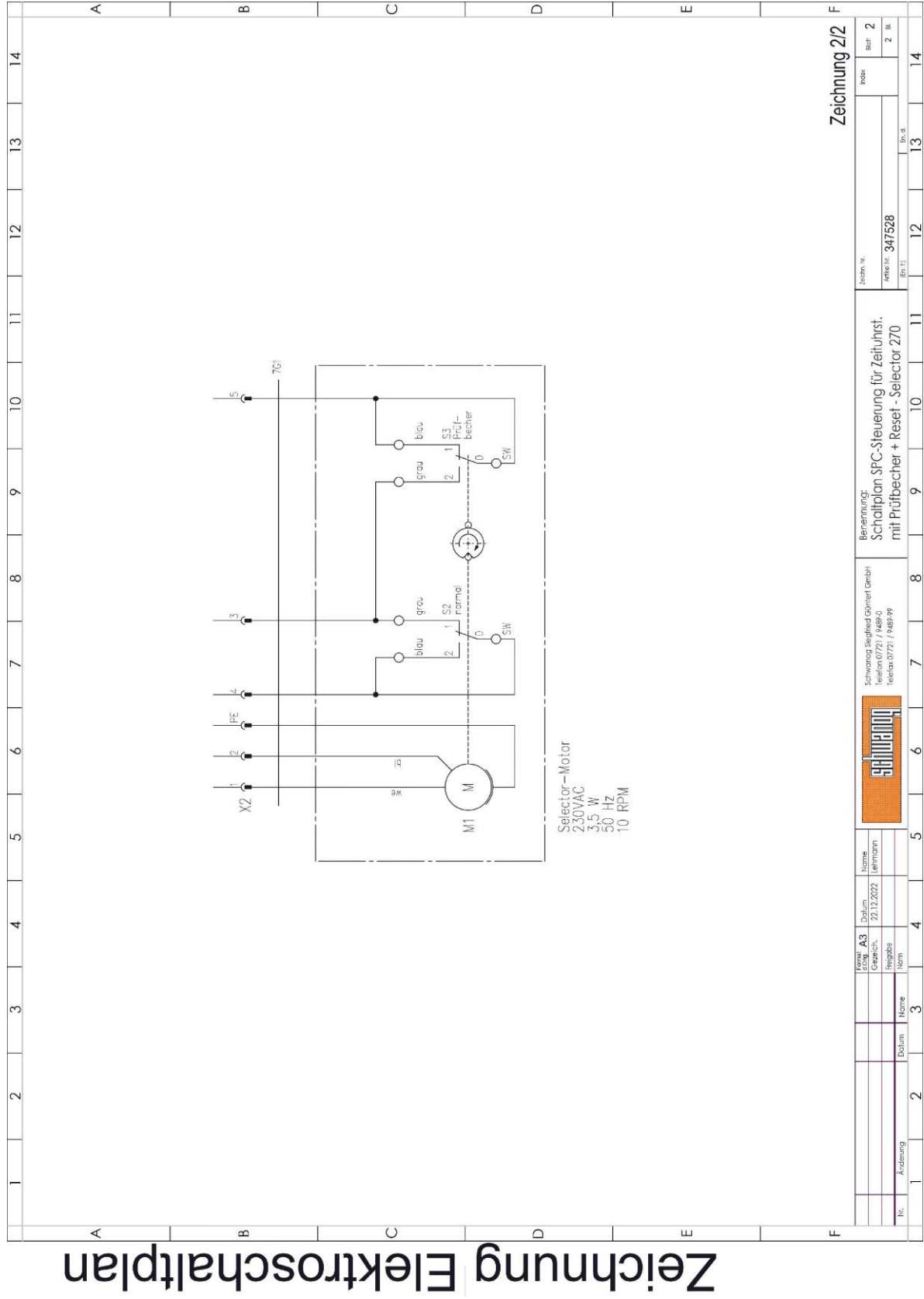
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Operating Instructions



Zeichnung 2/2

Zeichnung: Schaltplan SPC-Steuering für Zeituhrst. mit Prüfbecher + Reset - Selector 270		Zeichn. Nr. 347528	Blatt 2	von 2
Schwanag, Siegfried Gömter GmbH Telefon: 0772 / 9489-0 Telefax: 0772 / 9489-99		Zeichn. Nr. 347528	Blatt 2	von 2
Nr.	Änderung	Datum	Name	14
1	1	1	1	14



EC Declaration of Conformity

Tool Manufacturer: Schwanog Siegfried Guentert GmbH
Niederschacher Strasse 36
D -78052 VS Obereschach
+497721/9489-0
www.schwanog.com

hereby declares the following product

Product description Schwanog Selector-System
Type: 270-II/8-VZ
Part number: 325554, 278337

all relevant provisions of

- EC Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EU

)

According to Annex I No. 1.5.1. of the Machinery Directive 2006/42/EG, the protection goals of the Low Voltage Directive 2014/35/EU were also complied with.

The person authorised to compile the technical documentation within the meaning of the Machinery Directive is: Clemens Guentert, address see company address.

The following harmonised standards have been applied:

- EN ISO 12100:2011
Security of machines: Terminology, methodology, guidelines for risk assessment
- EN 60204-1:2006
Electrical equipment of machines: General requirements

Further technical specifications / standards:

- Low Voltage Directive 2014/35/EC

Obereschach, 20 April 2023

.....
Clemens Guentert, Managing Director