

Automatic overload cut-off and sensor button



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Scope of functions

- Daily hours counter (resettable)
- Total operating hours counter
- Automatic overload cut-off (editable)
- Push time / short rewind (editable)
- Diagnosis of the inputs and outputs (switching status)
- System time and date

Description

This Siemens Logo! (PLC) controls the feed rollers by actuating the sensor buttons and the stop bar. The green sensor buttons are used to switch the infeed rollers backwards or forwards after the switch-on speed has been exceeded. Each time the green sensor buttons are pressed for the first time, the feed rollers first run backwards and then forwards when they are pressed again. This is repeated in alternation.

The automatic overload cut-off monitors the speed of the knife disc and activates the infeed when a defined cut-in speed is reached. If the knife disc speed falls below a defined switch-off speed, the intake is deactivated and the short return (push time) causes the intake rollers to run backwards by the set milliseconds. This removes the chopped material from the knife disc and facilitates recovery to the switch-on speed. The values for the overload cut-off can be edited.

The total operating hours and the daily operating hours are counted after the control unit is switched on. The daily operating hours can be reset to zero.

The following inputs and outputs are monitored and the switching status is displayed.

- Forward/reverse feed sensor button (green)
- Feed Stop sensor button (red)
- Feed Free (switch-on speed reached)
- Solenoid valve feed forward
- Solenoid valve Reverse feed

The current time and date are displayed.

The home page

This page is displayed after each start.

- a. Programme number
- b. Language displayed
- 1. down arrow button
- 2. right arrow button
- 3. ESC button

Press button **3** to go to the next page of the hour counter.

By pressing the **3 + 2** button at the same time, the displayed language can be switched between German and English.



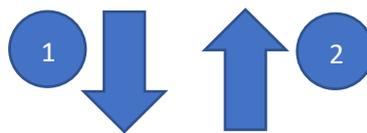
The hour counter

On this page is the daily hour counter and the total hour counter.

- a. Hour counter
 - b. Total hours counter
1. down arrow button
 2. up arrow button

Pressing button **1** switches to the next page **automatic overload cut-off**.

Press button **2** to return to the **start** page.



[Automatic overload cut-off](#)

[Homepage](#)

The hour counter

Reset hour counter

3. ESC button

4. left arrow button

Pressing button **3 + 4** at the same time displays the message text "Reset" and the hour counter is set to zero.



The message text "Reset" indicates the resetting of the hours-of-day counter.

1. OK button

This message must be acknowledged by pressing button 1.

Now the hour counter is set back to zero and starts counting again.



The automatic overload cut-off

This page contains the settings for the automatic overload cut-off.

- a. Current speed
- b. Current speed as bar graph
- c. Switch-on speed
- d. Switch-off speed
- e. Number of pulse generators
- f. Short return time
- 1. down arrow button
- 2. up arrow button

Pressing button **1** switches to the next page of the **diagnosis**.

Press button **2** to return to the **hour counter** page.



[The diagnostic page](#)

[The hour counter](#)

The automatic overload cut-off

Change selection mode for overload cut-off parameters

On this page, the functions of the overload cut-off can be selected.

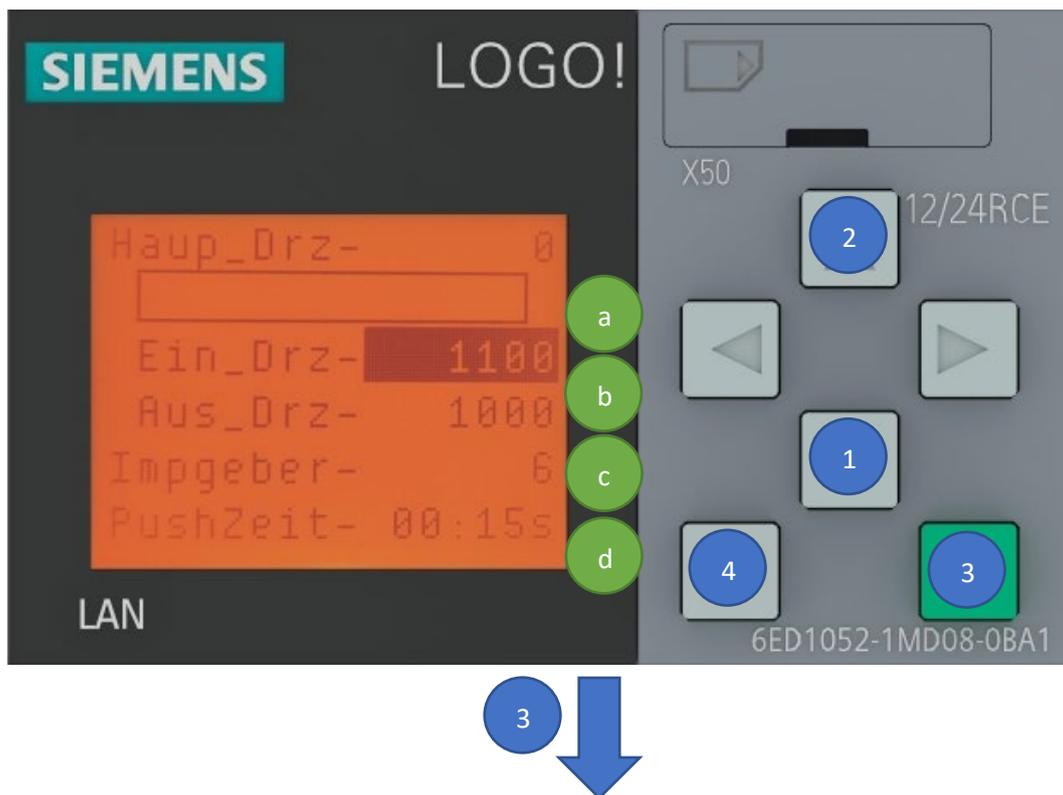
- a. Switch-on speed (feed)
- b. Switch-off speed (feed)
- c. Number of pulse generators
- d. Push time (short return)
- 1. down arrow button
- 2. up arrow button
- 3. OK button
- 4. button ESC

Press button **4** for a longer time (approx. 3 sec) to activate the **selection mode**.

Use buttons **1** and **2** to select the desired function (**a - d**) to change.

This can be edited by pressing button **3**.

Press button **4** to exit the **selection mode**.



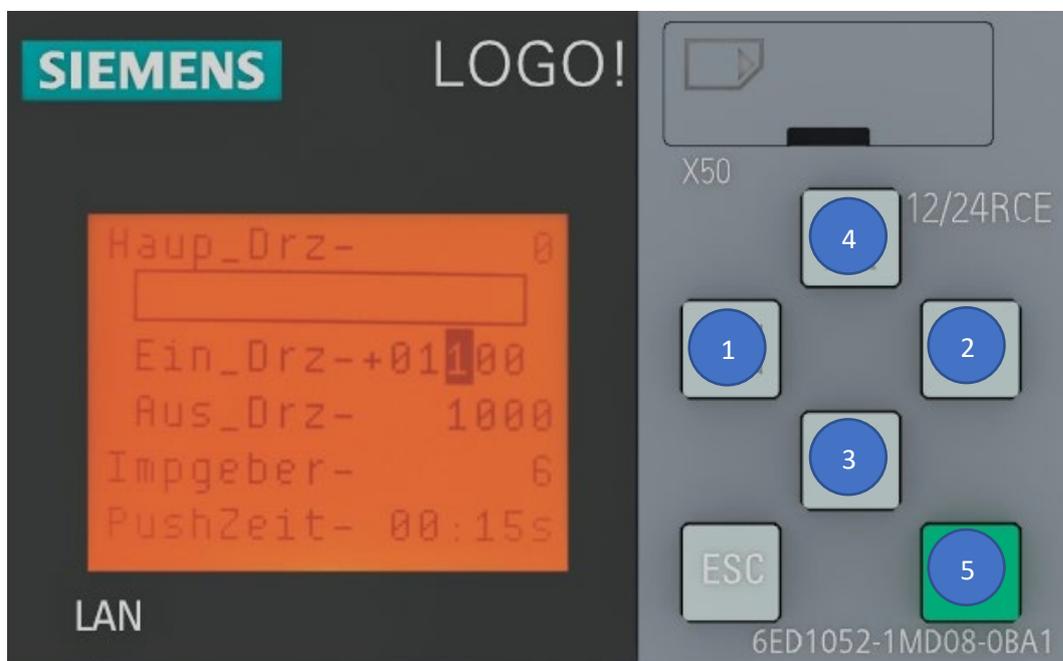
The automatic overload cut-off

Change input mode for overload cut-off parameters

On this page, the values of the functions can be edited.

1. left arrow button
2. right arrow button
3. down arrow button
4. up arrow button
5. OK button

Use buttons **1** and **2** to select the digit to be edited and buttons **3** and **4** to change it. When all the desired digits have been edited, confirm by pressing the **5** button. This switches back to the **selection mode**.



The diagnostic page

The switching states of the inputs and outputs are displayed on this page.

X= Activated

O=Disabled

- a. Feed sensor button (green)
- b. Stop sensor button (red)
- c. Release of the indent
(switch-on speed reached)
- d. Solenoid valve feed forward
- e. Solenoid valve retract
- 1. down arrow button
- 2. up arrow button

Pressing button **1** switches to the next page **System time**.

Press button **2** to return to the **overload cut-off** page.



[System time](#)

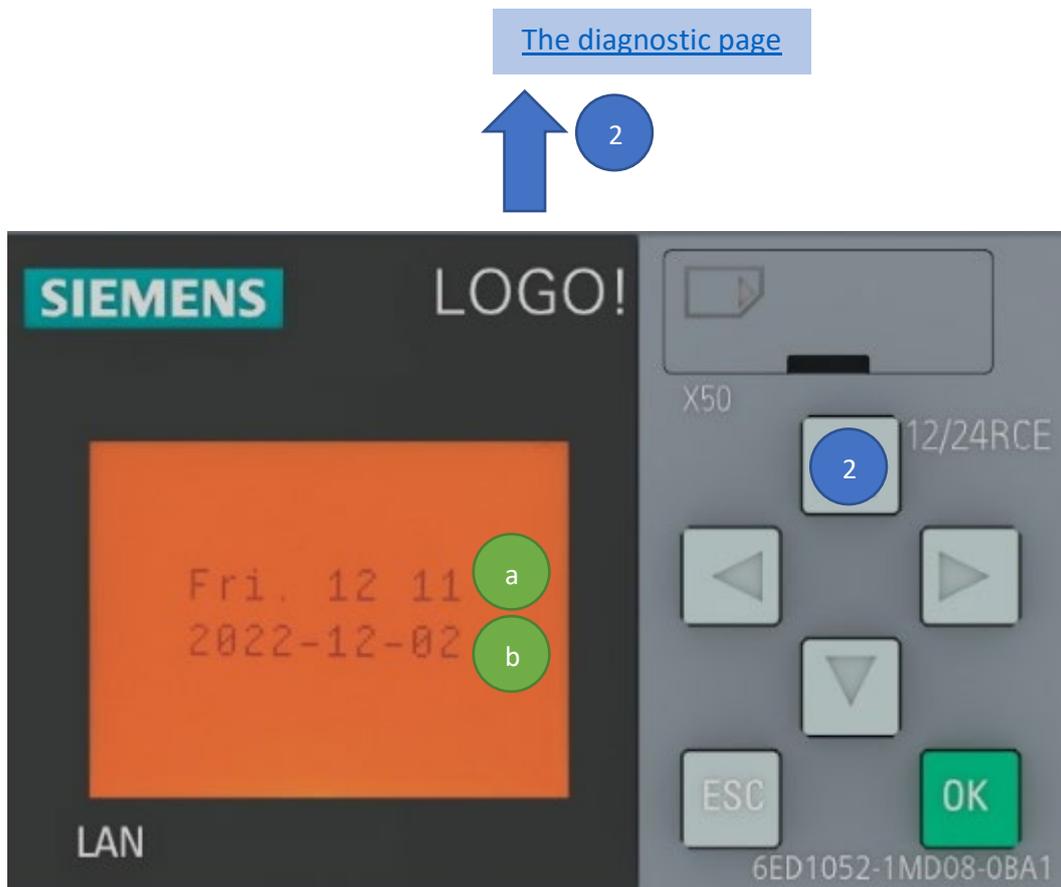
[The automatic overload cut-off](#)

System time

On this page is the time and date information.

- a. Day and time
- b. Date
- 2. up arrow button

Press button **2** to return to the **Diagnosis** page.



Electrical connection

For diesel engine drive

