

# Innovative switching and control

LOGO! 8 in details part 2 of 3 Usage at the device and handling of the software

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LOGO!

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### LOGO! in detail slides overview

The LOGO! in detail slides are split up in three different parts

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LOGO! in detail part 1

Installation and overview of the function blocks

LOGO! in detail part 2

Usage at the device and handling of the software

LOGO! in detail part 3

Tasks and features

### **Operation on device**

Have you designed a circuit? Do you want to enter it into LOGO! ? How do you do this?

Connect LOGO! to the power supply and switch it on. The display now shows you this message.

SIEMENS LOGO! Error: Empty program





Press **ESC** to get to the main menu.

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# Main menu / programming menu

Press  $\triangle \nabla$  to move the up and down. The selected point of the menu is always tagged by a bar.

Move it to "Program.." and confirm with **OK**.

LOGO! opens the programming menu.

In the next s	sub-menu please chose Edit Prog by moving with	$\triangle \nabla$	and confirm with
ОК			

You are now in programming menu.

Press  $\triangle \nabla$  to select all output, marker and open connectors.

Go to NEW for more function blocks.



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### **LOGO! - rules for operation**



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### LOGO! - rules for operation





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### LOGO! - rules for operation



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# Your first LOGO! program

Let us now take a look at the following parallel circuit consisting of two switches.



The load is switched on with S1 or S2.

### Solution with LOGO!



LOGO! interprets the parallel circuit of S1 and S2 as an 'OR' logic, because S1 or S2 switches on the output.

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### Wiring



S1 switches input I1, while S2 switches input I2. The load (E1) is connected to the relay Q1.

Let us now input the program (starting at the output and working towards the input). LOGO! initially shows the output Q1.

You will see an underscore ( \_ ) below the Q in Q1. It is called a cursor. The cursor indicates your current position in the program.

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# **Program input**



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# **Program input**

Select with (GF) the basic functions and confirm with OK .

The AND is the first block of the basic functions (GF) list. You can choose between the following by pressing  $\land \bigtriangledown \lor$ : AND AND (edge) NAND NAND (edge) OR NOR XOR NOT Select the OR block ( $\geq 1$ ) and confirm with OK.



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### **Program input**





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# **Program input**







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### **Program start**





Now all block inputs are connected. For LOGO! the program is complete. We now exit program input mode and return to the programming menu with pushing ESC twice. Confirm the changes with "Yes". To start the program, return to the main menu with ESC . Move the cursor to "Start": Press  $\sqrt{\phantom{100}}$ . To confirm press "Yes" with OK .





# LOGO! in RUN mode



When switch S1 is closed, input I1 is supplied with voltage and the status at input I1 is "1". LOGO! program calculates the status for the outputs. Output Q1 is "1", in this case. When Q1 is "1", LOGO! sets relay Q1, and the load connected to Q1 is supplied with voltage.

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### **LOGO!** parameterization mode





6ED1 052-1MD00-08





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### **LOGO!** parameterization mode

Block selection:
Choose In parameterization mode the desired block with $\Delta \overline{\nabla}$ .
If the desired block is chosen, press OK . The cursor jumps to the first parameter that can be modified. The value can be changed pressing the arrow keys .
If the desired value is configured, then press $OK$ . The next blocks requiring modification, can be chosen with $\Delta \nabla$ etc



# LOGO! parameterization mode

To return to in RUN mode press	<b>ESC</b> till the required display appears	5.
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# LOGO! ..0BA8 – Setting the language

In the LOGO! Menu you are able to change the menu language. The LOGO! has to be in STOP mode. Available languages: • EN – English • IT – Italian • NL – Dutch • ES – Spanish • FR – French • CN – Chinese • DE – German • TR – Turkish • RU – Russian • JA – Japan

This setting can be separately done for LOGO! TD.



# LOGO! ..0BA8 -**Backlight function**



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ESC

6ED1 052-1MD00

LAN

OK

If the flags 25, 26, 28 – 31 are used for controlling the backlight the general setting is invalid.

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### **LOGO! TD parameterization mode**

In the menu of LOGO! TDE nearly the same menu items are available as at the LOGO! on-board menu including the the possibility to edit the program.



Menu item	LOGO! Basic module	LOGO! TDE
In STOP mode		
Edit program	$\checkmark$	$\checkmark$
Card	$\checkmark$	-
Setup	$\checkmark$	$\checkmark$
LCD Contrast / Backlight	$\checkmark$	$\checkmark$
Menu language	$\checkmark$	$\checkmark$
2 or 4 AI used on basic module	$\checkmark$	-
Start / Stop	$\checkmark$	$\checkmark$
In RUN mode		
Set Param		
Msg Config (e.g. Tick Time)	-	

The following table shows on which device which menu items are available ...

# LOGO! program creation on a PC with LOGO! Soft Comfort V8.1

#### Support for LOGO! TDE

No separate software necessary

#### Modem wizard (only for LOGO! 6)

for standard 11-bit analog modems

#### Windows Look and Feel

• e.g. context menu, toolbar

#### Create the control programs by "drag and drop"

Control programs "drawing" – directly on a PC in FBD or LAD

#### Testing of control programs

- Offline simulation with status for each function (color change)
- Online test with color change for each function and 30 actual values

#### Professional print and documentation functions

#### **Device selection**

• 0BA0, 0BA1, 0BA2, 0BA3, 0BA4, 0BA5, 0BA6, 0BA7, 0BA8 with function check

#### Network mode

- Adding other devices, e.g. HMI, S7-devices
- Simple connecting of function blocks between LOGO! devices
- Additionally on the CD ROM:
- Manual and 28 complete example programs
- LOGO! Access Tool
- CAD drawing







### **Installing LOGO! Soft Comfort V8.1**

e 💌 Burn to disc				855		
× 1	Name	Date modified	Туре	Size	E\start.html	P - C S LOGO\Soft Comfort V8.0 ×
mputer		01.07.2014.08-22	File folder			SIEMENS
C:) SYSTEM		01.07.2014.08-22	File folder			
D:) DATA	inux	01.07.2014 08:22	File folder			Deutsch   English   EspaA±ol   FranA§ais   Italiano   a,æ-‡
:) DVD RW <b>2</b> .	lac	01.07.2014.08:24	File folder			
CAD	Manual	01.07.2014.08:24	File folder		LOGOU Soft Comfort	
CDROM_Installers		01.07.2014.08:24	File folder		Installation     Run application	
Charsets		01.07.2014.08:25	File folder		Readme     Licence requirements	CIEMENS
CoL	Readme	01.07.2014 08:25	File folder		<ul> <li>FAQ - Online</li> </ul>	SIEMENS
Language	Sample	01.07.2014 08:25	File folder		Documentation Manual	and the second se
License	System	01.07.2014 08:25	File folder		Online Help     Sample applications	LOGO! Soft Comfort Version 8.1
Linux	USBDriver	01.07.2014 08:25	File folder		Program	
Mac	Windows	01.07.2014 08:27	File folder		Manual     Sample applications	
Manual	autorun.inf	29.06.2014 10:31	Setup Information		DXF Graphics	and the second se
Onlinehelp	ReadMe OSS CN.htm	29.06.2014 10:31	HTML Document	3	Expansion modules     Basic devices     Dia mile	LOCOL
OpenSourceSoftwa—	Readme OSS DE.htm	29.06.2014 10:31	HTML Document	1	<ul> <li>L devices</li> </ul>	T000:
Keadme	Readme_OSS_ES.htm	29.06.2014 10:31	HTML Document	3	Tools	
Sample	Readme_OSS_FR.htm	29,06,2014 10:31	HTML Document	1		
System	Readme_OSS_IT.htm	29.06.2014 10:31	HTML Document	1		© Siemens AG. 2014 - 2016. All Rights Reserved.
USBUriver	Readme_OSS_US.htm	29.06.2014 10:31	HTML Document	1		
Windows	Start.html	29.06.2014 10:32	HTML Document	3		

- 2. Display CD content with help of Explorer
- 3. Double click on start.html

### **Installing LOGO! Soft Comfort V8.1**



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### **Installing LOGO! Soft Comfort V8.1**

The USB cable driver for the LOGO! USB programming cable is also included on the CD-ROM. During the installation process you will be asked if you want to install the driver.

HINT: Follow the correct order!

1. Install the driver (administrator privileges are required!)

2. Then plug in the LOGO! USB programming cable



# LOGO! Soft Comfort V8.1: Overview



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# Help functions – Online help



### Help functions – direct help



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# Help functions – direct help



### **Help functions – Update Center**



### Thank you for your attention!





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