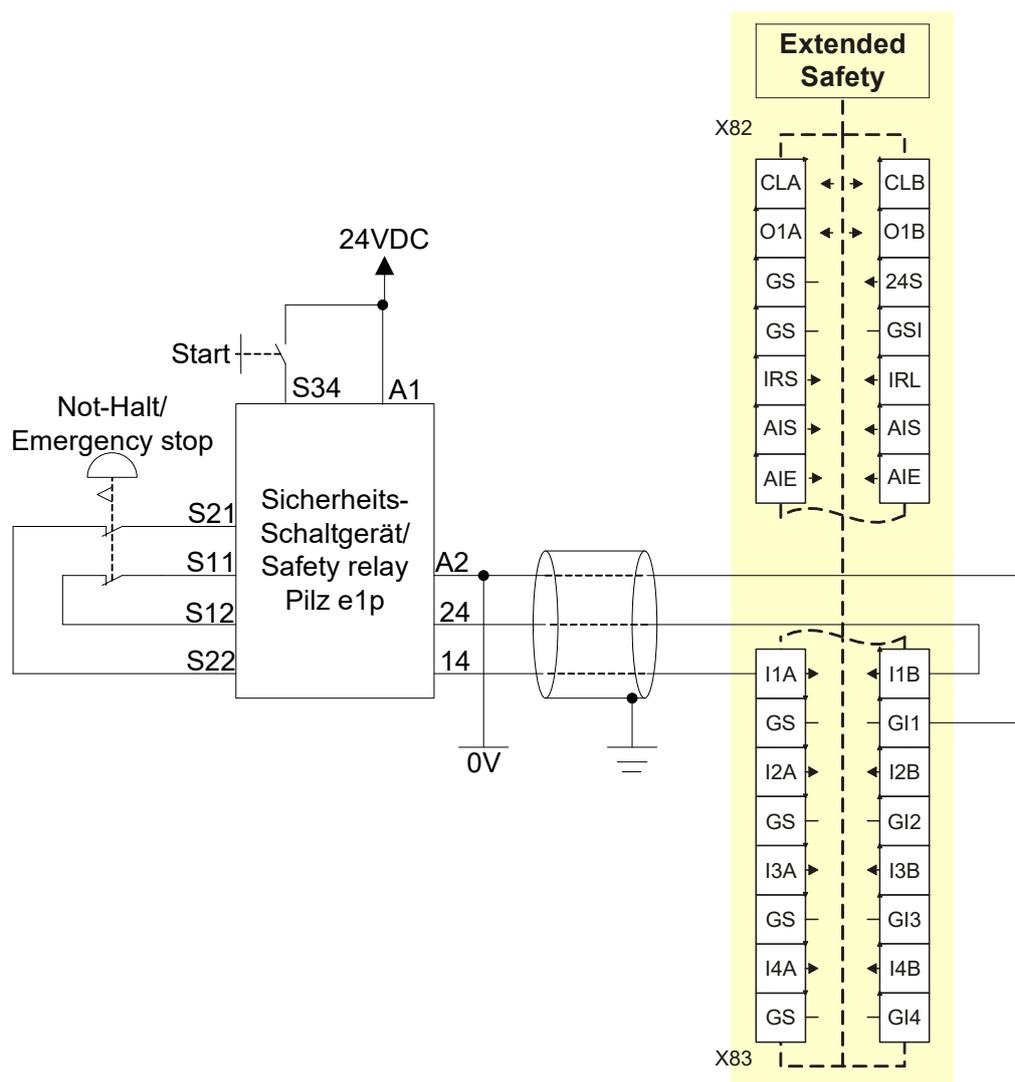


Commissioning manual for i950 with Extended Safety V1.x parameterized as Basic Safety - STO

This document describes how an i950 with Extended Safety can be parameterized, that it operates as a Basic Safety – STO device or permanently without the STO function.

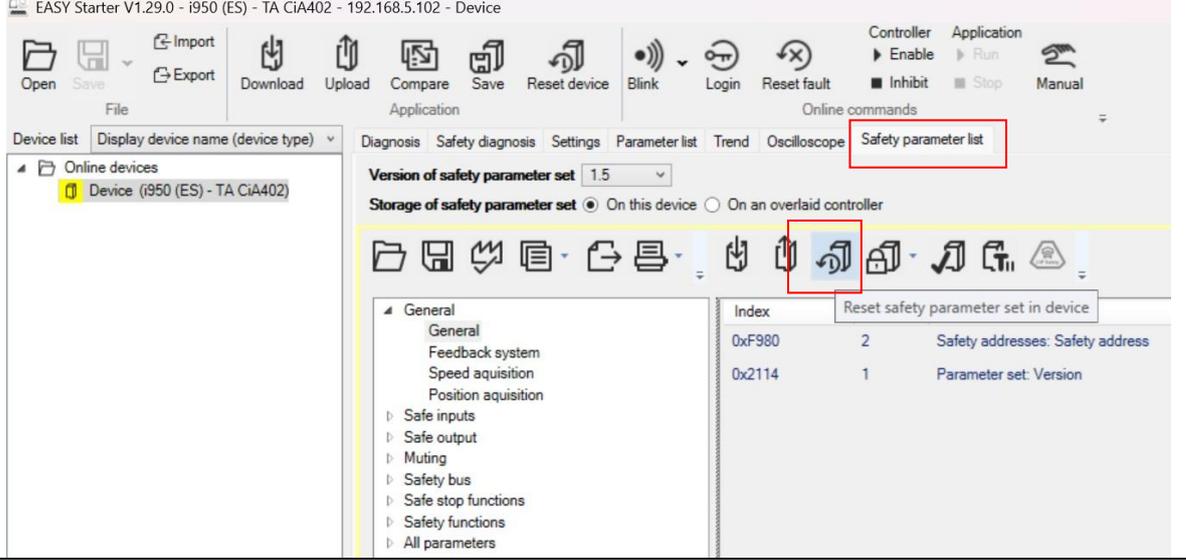
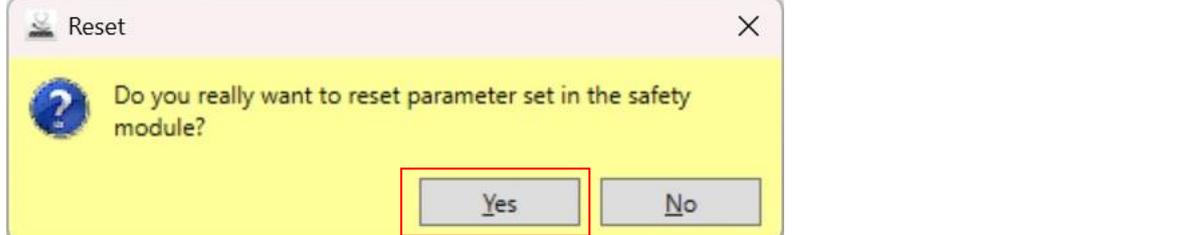
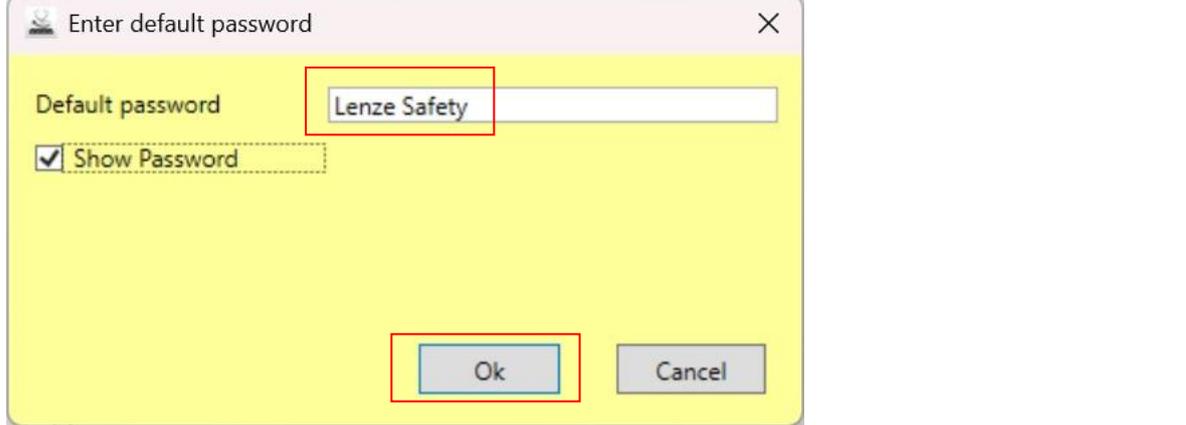
Used PC-Software: EASY Starter 1.29.0

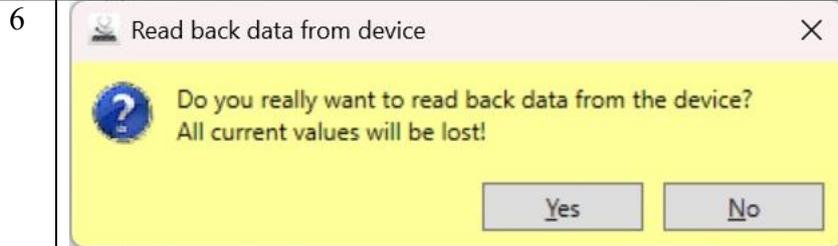
Used device: i950 ES FW V1.14.1.3628, Safety FW 1.5.0.12760



If the STO function should be disabled permanently no wiring is necessary.

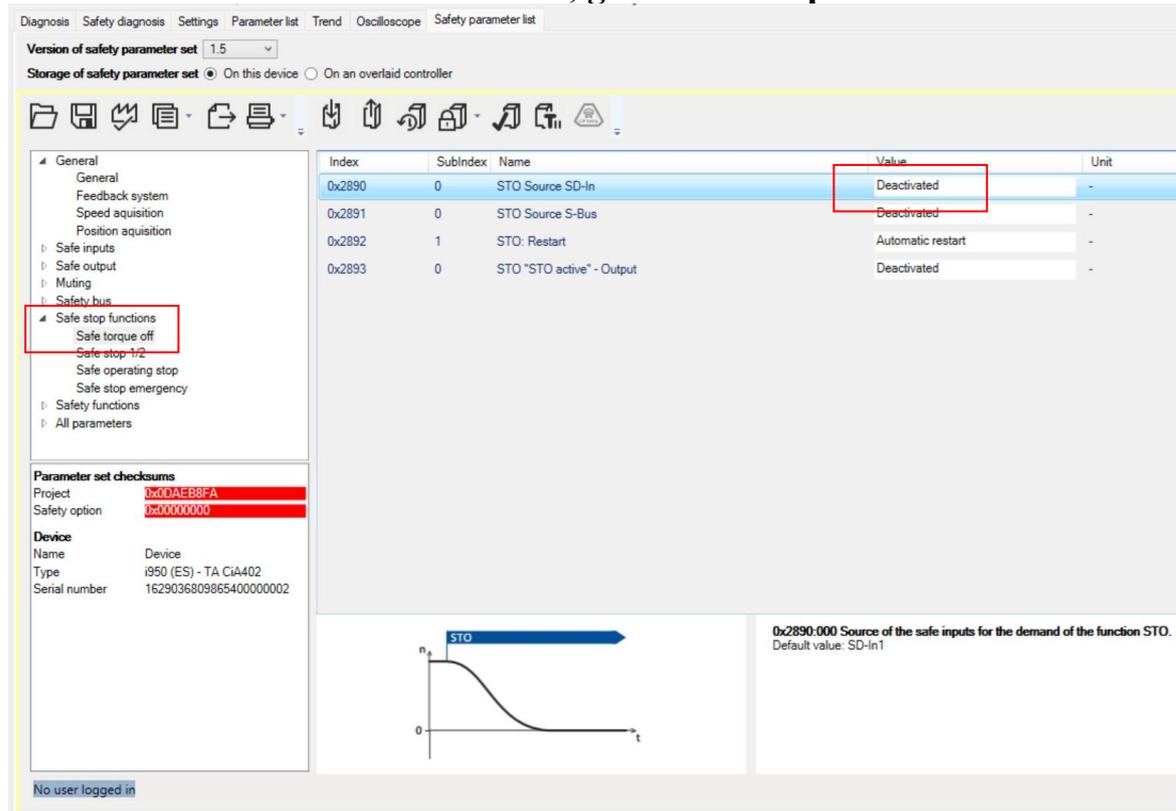
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1	Establish the communication between EASY Starter / PLC Designer and i950 ES.
2	 <p>The screenshot shows the EASY Starter V1.29.0 interface for an i950 (ES) - TA CiA402 device. The 'Safety parameter list' tab is active, and the 'Reset safety parameter set in device' button is highlighted with a red box. The interface includes a menu bar with options like Open, Save, Export, Download, Upload, Compare, Save, Reset device, Blink, Login, Reset fault, Inhibit, Stop, and Manual. A toolbar below the menu bar contains icons for file operations and safety functions. The main area shows a tree view of safety parameters and a table of safety addresses.</p>
Switch to the tab “Safety parameter list” and press the button “Reset safety parameter set in device”.	
3	 <p>The screenshot shows a 'Reset' dialog box with a question mark icon. The text reads: 'Do you really want to reset parameter set in the safety module?'. There are two buttons: 'Yes' and 'No'. The 'Yes' button is highlighted with a red box.</p>
Click “Yes”.	
4	 <p>The screenshot shows an 'Enter default password' dialog box. The 'Default password' field contains 'Lenze Safety'. There is a 'Show Password' checkbox which is checked. There are 'Ok' and 'Cancel' buttons. The 'Ok' button is highlighted with a red box.</p>
Type in the Default password “Lenze Safety”.	
5	 <p>The screenshot shows an 'Information' dialog box with an information icon. The text reads: 'Reset safety parameter set successful'. There is an 'OK' button. The 'OK' button is highlighted with a red box.</p>
Click “OK”. The password file has been created on the SD card now.	

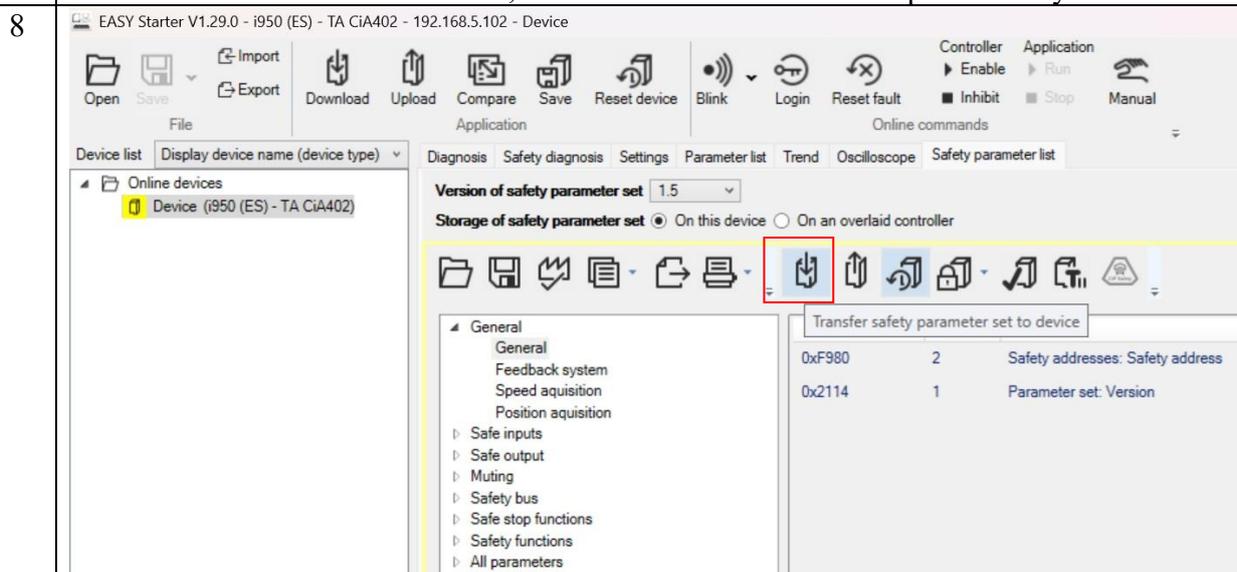


Click “Yes” or “No”. The choice is not relevant in this case.

7 **If the STO function should be used, go on with step 8.**

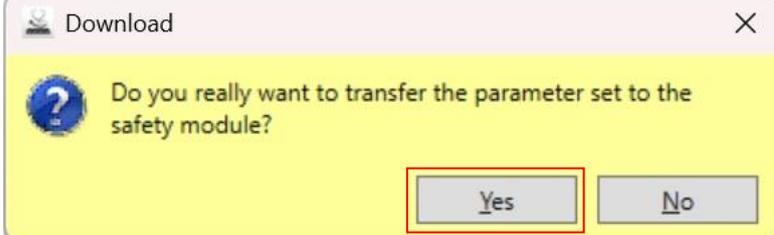
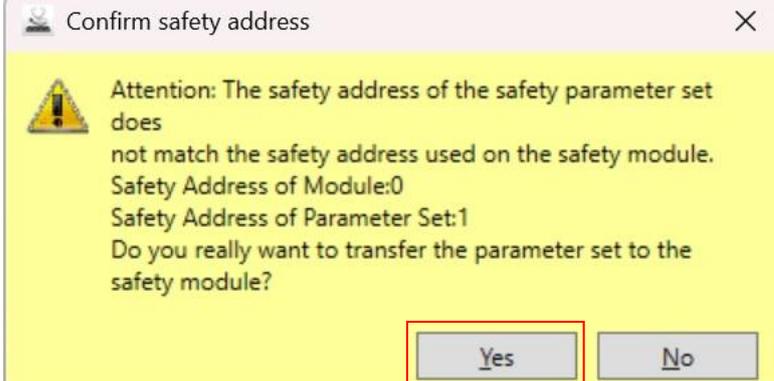
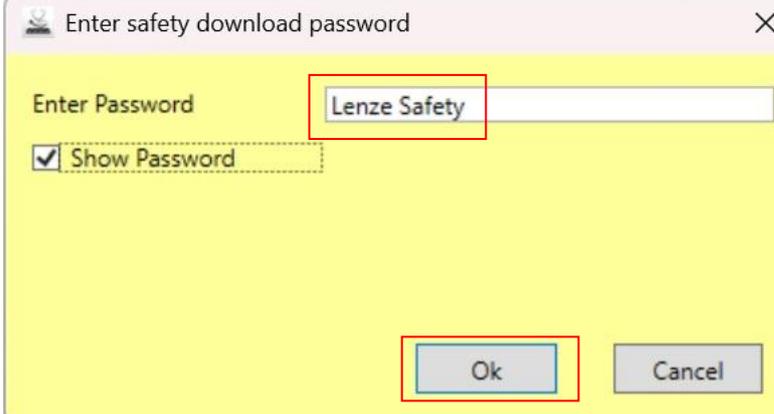


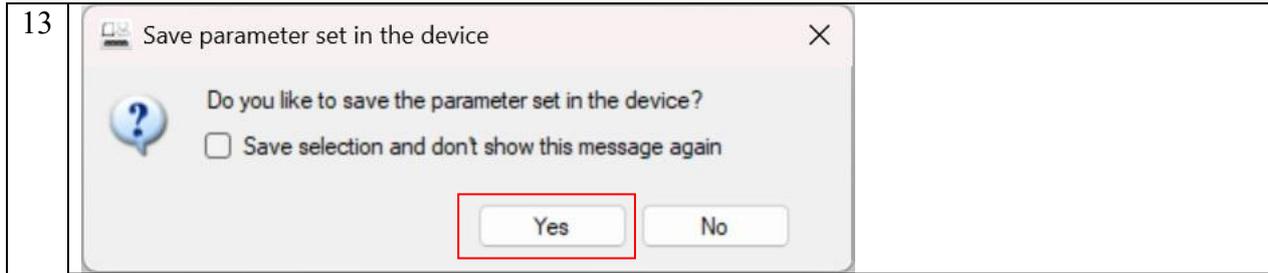
Deactivate the STO Source SD-In, if STO should be deactivated permanently.



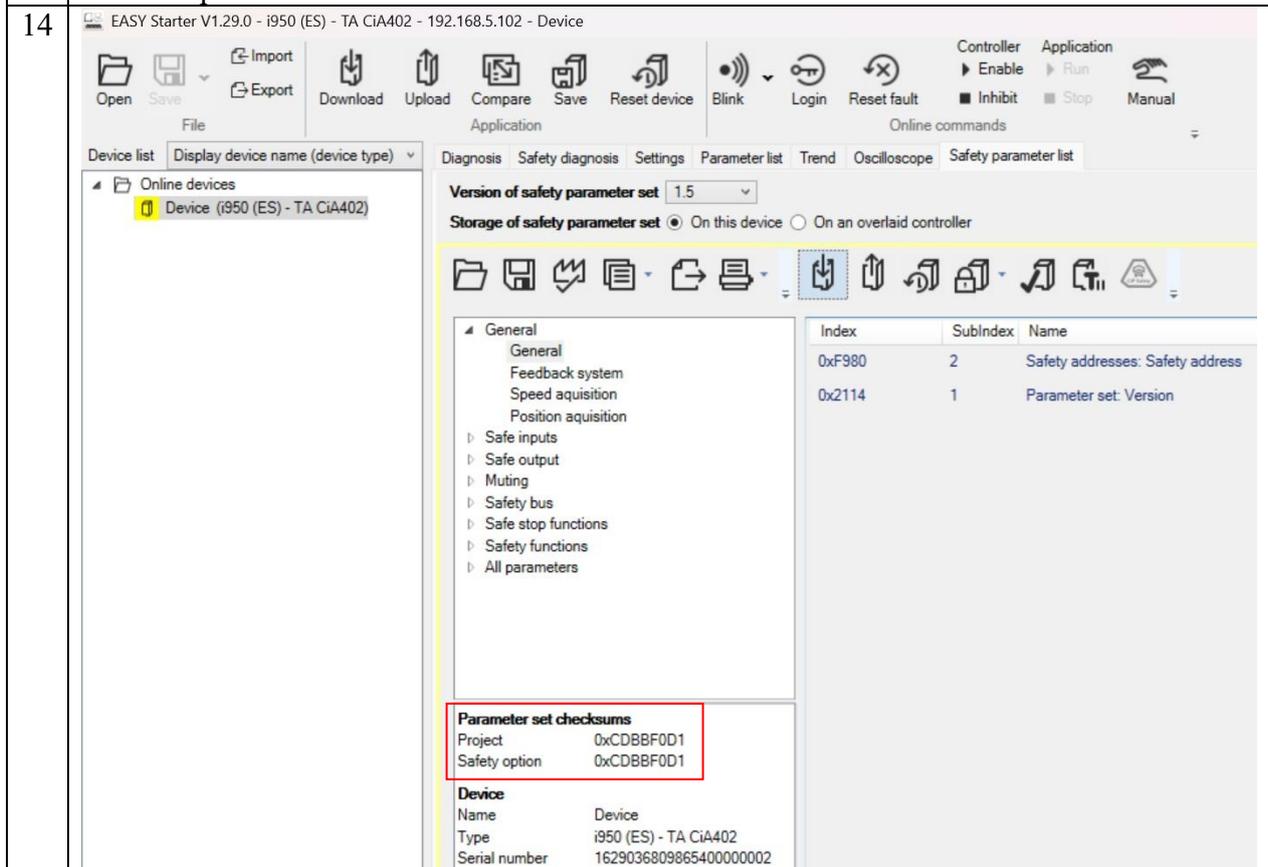
Transfer the safety parameter set to the device.

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9		
	Click "Yes".	
10		
	Confirm, that the safety address will be changed from "0" (invalid factory setting) to "1" (default in a valid parameter set).	
11		
	Type in the safety download password "Lenze Safety".	
12		
	Click "OK".	



Save the parameter set in the device.



The CRC of the Project (in EASY Starter / PLC Designer) and the CRC of the Safety option (in the device) must match.

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Safety information / disclaimer:



The safety application and parameterisation notes are examples of possible subfunctions in machines.

The T10_D value according to DIN EN ISO 13849-1, Annex C.4.2 is only indicated if a B10_D value is available and the operating time is less than 20 years.

Commissioning is prohibited until the machine has been checked in accordance with the regulations set out in the relevant EU directives / national laws.

The safety instructions contained in the technical documentation must be observed.

Using the examples does not exempt the user from careful project planning. For possible damages and consequential damages Lenze assumes no liability to the extent permitted by law.

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