

## FAQs for 6RA70 DC MASTER and SIMOREG CM

**Question:**

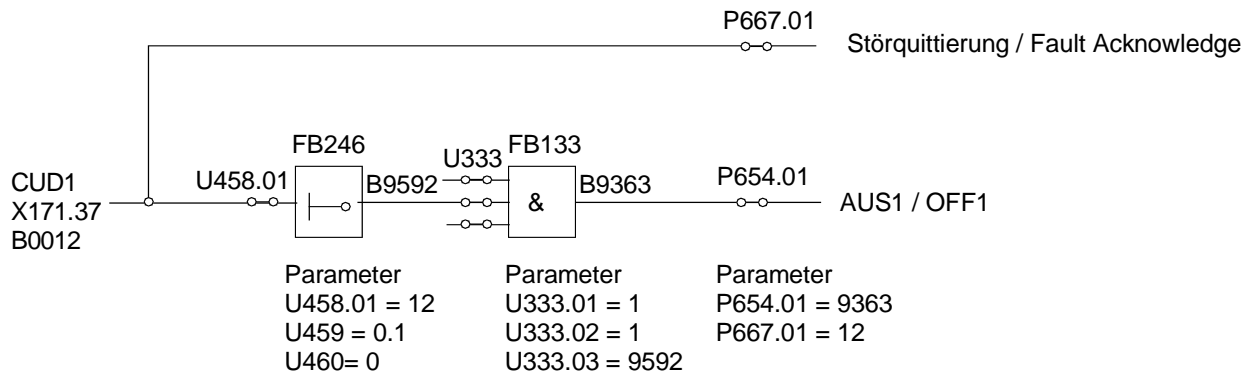
Which methods of fault acknowledgement are available?

**Answer:**

You will find the methods described below easier to understand if you refer to the function diagrams in Chapter 8 of the operating instructions:

sheet G110; G111: binary inputs; sheet G180: control word 1; sheet G170; G171; G172: USS interfaces (serial basic unit interfaces); sheet Z110: 1st CB (Profibus), sheet Z123: OP1S operator panel.

- A) The simplest method to acknowledge a fault is to press the P button on the PMU, see also Section 7.2.2 in the operating instructions.
- B) When an OP1S panel is used, faults are acknowledged with the R button; parameters must be assigned as described under D).
- C) Acknowledge faults via a binary input terminal: To do this, the binector number of the fault acknowledgement signal must be entered in the selection parameter for bit 7 of control word 1 (acknowledge edge). For example, acknowledge via terminal 36 (binector number B0010): Set parameters P648.01 = 9, P665.01 = 10.
- D) Acknowledge faults via a serial interface: If the connector number for control word 1 from the serial interface is entered in P648.01, e.g. USS interface 1 with receive word 1 (K2001), then faults are acknowledged with bit 7 of control word 1. If P648.01 is set to 9, the binector for control word 1 bit 7 can be selected bit by bit, e.g. incoming via USS interface 1 (B2107), by setting parameter P666.02 = 2107, for example.
- E) Acknowledge faults via the On signal at terminal 37. This method requires use of free function blocks, option S00. Set parameter P648.01 = 9. You will find other parameter settings in the general overview for the function (see below). Additional On signals, e.g. from other interfaces, can be combined via the AND gate (FB133). When control word 1 supplied via serial interfaces is used in addition, the interface control bits must be selected by means of their binector numbers. When all free function block parameters have been assigned, set U969 = 4 - automatic activation/deactivation of free function blocks (value is automatically reset to zero after execution of the function). When an "OFF1" fault message is generated and input at terminal 37 and then followed by an "ON" signal at terminal 37, the fault is acknowledged and the ON signal applied after a delay of 100 ms (U459).



**Note:** The parameter settings in examples C) to E) have been selected such that these options can also be combined.



## WARNING



When parameters are assigned as described in example E) (acknowledge faults via terminal 37), please note the following: If the electronics power supply is switched on when a high signal is applied at terminal 37, fault acknowledgement will take place automatically and the Start command issued without any further protective interlock. The commissioning engineer / plant operator is responsible for implementing any supplementary essential interlocks against accidental startup of the plant after electronic supply failures of any duration, e.g. using additional On signals or the operating enable command.