Z - Master Reset

Can be used for	
Device	**From version no.:**
easy500	01
easy700	01

General

The devices provide three master reset function relays **Z01...Z03**.

The **Master Reset** function relay enables you to set with one command the status of the markers and all outputs to 0.
Depending on the operating mode set, it is possible to reset either the outputs only, the markers only or both.
A master reset function relay can be used both as a coil or as a contact (switch contact) in your circuit diagram.

Function

A rising edge or the 1 status on the coil will reset the outputs or markers to 0, depending on the operating mode set.
The location of the coil in the circuit diagram is of no importance. A master reset always has the highest priority.
The contacts Z1 to Z3 follow the status of their own coil.

Linking and Parameter Assignment of a Master Reset Function Relay

Requirement: You have included a control relay in the project and have switched to Circuit Diagram View.

▶ To reset the required operands always position a **Z** function relay on a coil field in your circuit diagram.

▶ To reset the outputs Q1 - Q8 and S1 - S8, in the **Circuit Diagram Element** tab of the **Properties field** select the operand number 1 or

▶ to reset the marker ranges M1 - M16 and N1 - N16 in the **Circuit Diagram Element** tab select the operand number 2 or

▶ to reset the stated outputs and marker ranges together, select in the **Circuit Diagram Element** tab the operand number 3.

▶ Connect the **Z0x** coil with an appropriate contact for activation.

▶ If required, write a comment for the selected operand.

If you wish to check whether a function relay triggered as a coil has switched, you must wire this function relay as a contact with the same operand number.

▶ Position the function relay on a contact field and select the same operand number in the **Circuit Diagram Element** tab that you have assigned to the coil.

▶ If required, change the switch function of the contact from break to make contact.

▶ Connect the contact **Z0x** to a coil suitable for indication purposes, for example, output Q1.

Whether you position the function relay first of all in a coil field or contact field or whether you make the entries in the **Parameters** tab of a coil or a contact is not important. It is only important that you have selected the same operand number if you also want to configure the same function relay.

Circuit diagram elements and parameters

	Description	Note
Contact		

Zxx	Status 1 if coil Zxx detects a rising edge or status 1.	
Coil function		
Trigger coil	The Master Reset function relay is started when it detects a rising edge (Trigger) or status 1 (Enable), when it then carries out the corresponding Reset operation.	**Z**xx Triggered via one of the three coils available Z1...Z3. Use the master reset function relay in one of the following operating modes.
Operating mode		
Z1	The outputs Q1 to Q8 and S1 to S8 are reset to 0.	
Z2	The marker ranges M1 to M16 and N1 to N16 are reset to 0.	
Z3	Operates simultaneously on Q1...Q8, S1...S8, M1...M16 and N1...N16.	
Parameter display		
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Simulation		
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Tip: Refer to the easy500/700 manual (AWB2528-1508x) for more information on the function block (e.g. signal diagram).