

Bistable elements

1 The symbol for a bistable element does not contain a general qualifying symbol for the function, the latter being indicated by qualifying symbols associated with the inputs and outputs.

2 For bistable elements controlled by Cm-inputs (symbol S01558 (12-18-01)), it is necessary to distinguish between four types, that is: latches, edge-triggered bistables, pulse-triggered bistables, and data-lock-out bistables. In accordance with the descriptions of the symbols for a dynamic input (S01472 (12-07-07)) and for a postponed output (S01491 (12-09-01)), see A00304_Example.pdf below.

For edge-triggered, pulse-triggered and data-lock-out bistables, the inputs affected by the Cm-input are assumed to be stable during the period that the Cm-input stands at its internal 1-state. If they do change their states during this period, the function of the element is not specified by the symbol.

The same symbology is used for more complex elements such as shift registers and counters to indicate whether they are of the edge-triggered, the pulse-triggered or the data-lock-out type. For elements of the pulse-triggered or the data-lock-out type, if reference is made to the content of the element (for example, by a CT-output), this content shall be considered as being the content after the application of the postponed-output symbol.