

29.2 Bistable Function Blocks (Reset Priority)

RS(_E)

FX5S FX5UJ FX5U FX5UC

These function blocks judge two input values and output 1 (TRUE) or 0 (FALSE).

Ladder diagram, FBD/LD		Structured text
[Without EN/ENO]	[With EN/ENO]	<pre>[Without EN/ENO] RS_1(S:=s1,R1:=s2,Q1:=d); [With EN/ENO] RS_E_1(EN:=EN, ENO:=ENO, S:=s1,R1:=s2,Q1:=d);</pre>

Setting data

■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s1(S)	Set instruction	Input variable	BOOL
s2(R1)	Reset instruction	Input variable	BOOL
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(Q1)	Output	Output variable	BOOL

Processing details

■Operation processing

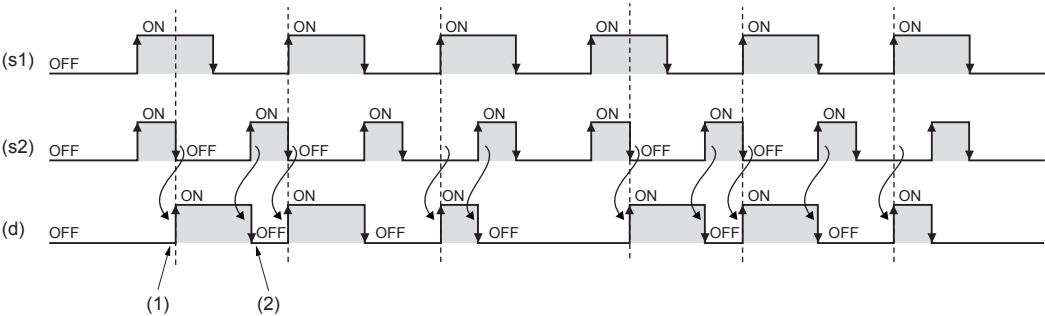
- When (s1) turns ON, (d) is set. When (s2) is turned ON, (d) is reset.
- If (s1) is turned ON when (s2) is ON, (d) is not set.

■Operation result

1. Function block without EN/ENO

The operation processing is executed. The operation output value is output from (d).

- Timing chart



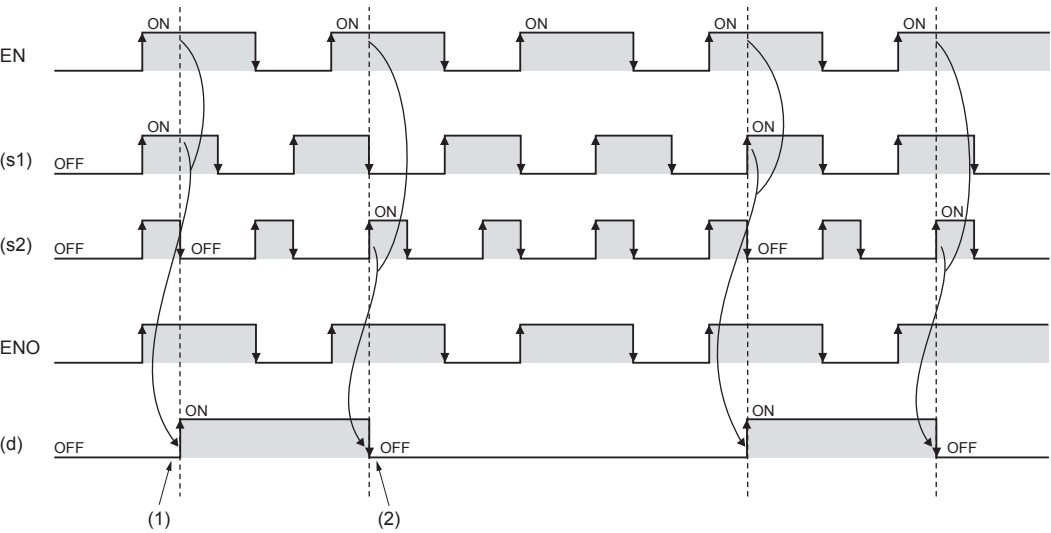
- (1): When (s1) is on and (s2) is off, (d) turns on.
(2): When (s2) is on, (d) turns off.

2. Function block with EN/ENO

The following table lists the execution conditions and operation results.

Execution condition	Operation result	
EN	ENO	(d)
TRUE (Executes operation)	TRUE	Operation output value
FALSE (Stops operation)	FALSE	Previous output value

• Timing chart



- (1): When EN and (s1) are on and (s2) is off, (d) turns on.
 (2): When EN and (s2) are on, (d) turns off.

Operation error

There is no operation error.