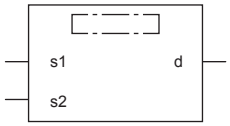
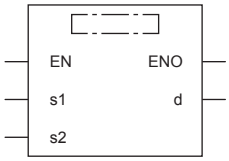
29 BISTABLE FUNCTION BLOCKS

29.1 Bistable Function Blocks (Set Priority)

SR(_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] 	[Without EN/ENO] SR_1(S1:=s1,R:=s2,Q1:=d); [With EN/ENO] SR_E_1(EN:=EN,ENO:=ENO S1:=s1,R:=s2,Q1:=d);

Setting data

■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s1(S1)	Set instruction	Input variable	BOOL
s2(R)	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

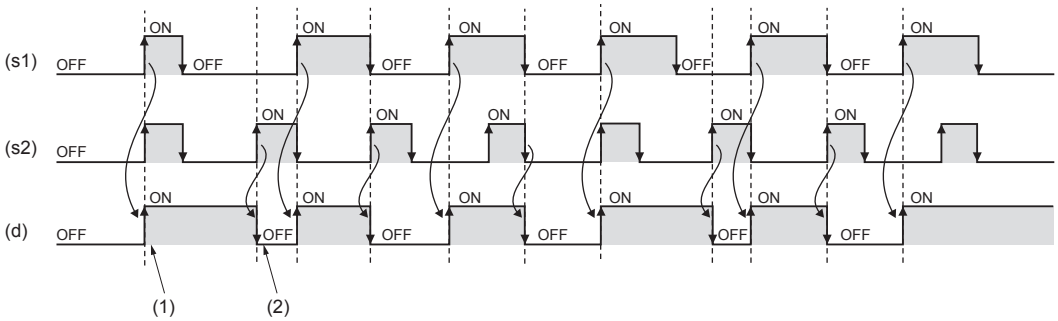
- When (s1) turns ON, (d) is set. If (s2) is turned ON when (s1) is OFF, (d) is reset.
- If (s2) is turned ON when (s1) is ON, (d) is not reset.

■Operation result

1. Function block without EN/ENO

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

- Timing chart



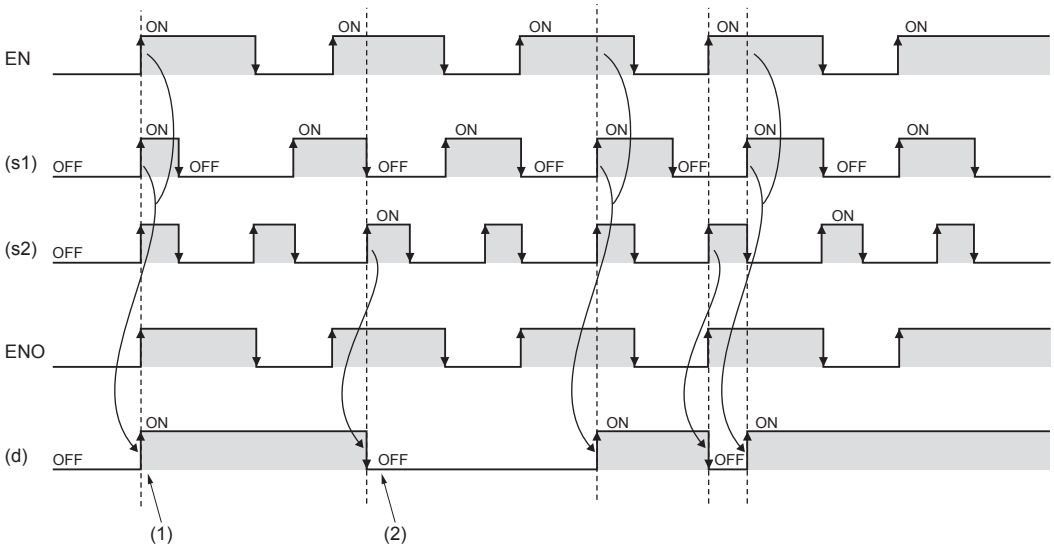
(1): When (s1) is on, (d) is on.
(2): When (s1) is off and (s2) is on, (d) is off.

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, (d) is on.

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

Operation error

There is no operation error.