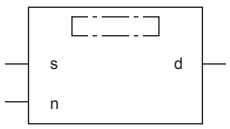
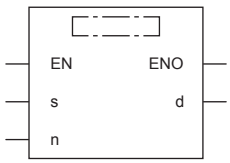
20.53 Bit Array Copy

CPY_BITARR(_E)

FX5S FX5UJ FX5U FX5UC

These functions copy specified number of bits of a bit array.

Ladder diagram, FBD/LD		Structured text

[Without EN/ENO]
 
	[With EN/ENO]
	 
		[Without EN/ENO]
		d:=CPY_BITARR(s,n);
		[With EN/ENO]
		d:=CPY_BITARR_E(EN,ENO,s,n);

Setting data

■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s(BitArrIn)	Input	Input variable	BOOL array element
n	Only a constant 4, 8, 12, 16, 20, 24, 28 or 32 can be specified.	Input variable	INT
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(CPY_BITARR(_E))	Output	Output variable	BOOL array element

Processing details

■Operation processing

- These functions output (n) bits of a bit array specified to (s) to (d).

■Operation result

1. Function without EN/ENO

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

2. Function 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*1	Indefinite value

*1 When FALSE is output from ENO, data output from (d) is undefined. In that case, modify a program so that the data output from (d) is not used.

Operation error

There is no operation error.