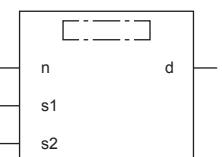
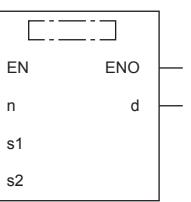


25.4 Multiplexer

MUX(_E)

FX5S **FX5UJ** **FX5U** **FX5UC**

These functions output one of multiple input values.

Ladder diagram, FBD/LD ^{*1}	Structured text ^{*1}
[Without EN/ENO] 	[With EN/ENO] 
	[Without EN/ENO] d:=MUX(n,s1,s2); [With EN/ENO] d:=MUX_E(EN,ENO,n,s1,s2);

*1 The input variable "s" can be changed in the range of 2 to 28.

Setting data

■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
n(K)	Output value selection	Input variable	INT
s1(IN0) to s28(IN27)	Input	Input variable	ANY
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(MUX(_E))	Output	Output variable	ANY

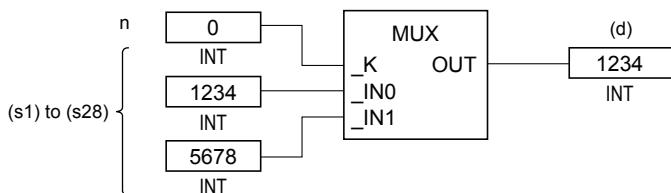
Processing details

■Operation processing

- These functions output one of values input to (s1) to (s28) according to the input value of (n) in the same data type as (s) from (d).
- When 0 is input to (n), these functions output a value input to (s1) from (d).
- When (n)-1 is input to (n), these functions output a value input to (sn) from (d).

Ex.

Data type is INT



- When a value input to (n) is outside the pin number range for (s), these functions output an indefinite value from (d). (An operation error does not occur. "MUX_E" outputs "FALSE" from ENO).
- A value input to (n) is the INT type data value and within the range from 0 to 27. (The value must be in the pin number range for (s).)
- A data value of the BOOL, INT, DINT, WORD, DWORD, REAL, STRING, TIME, structure, or array type can be input to (s).

■Operation result

1. Function without EN/ENO

The following table lists the operation results.

Operation result	(d)
No operation error occurred	Operation output value
An operation error occurred	Indefinite value

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 error did not occur)	Operation output value
	FALSE (Operation error occurred) ^{*1}	Indefinite 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

Error code (SD0/SD8067)	Description
2820H	In the corresponding device range of the device specified by (s1) to (s28) and later, "00H" does not exist.
3405H	The character string specified by (s1) to (s28) has more than 16383 characters.
3406H	The whole specified character string cannot be stored in the devices from the device specified by (d) to the last device in the corresponding device range.