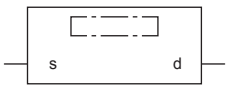
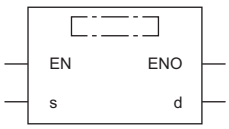
20.14 Converting DWORD to INT

DWORD_TO_INT(_E)

FX5S FX5UJ FX5U FX5UC

These functions convert DWORD type data to INT type data.

Ladder diagram, FBD/LD		Structured text

[Without EN/ENO]
 
	[With EN/ENO]
	 
		[Without EN/ENO]
		d:=DWORD_TO_INT(s);
		[With EN/ENO]
		d:=DWORD_TO_INT_E(EN,ENO,s);

Setting data

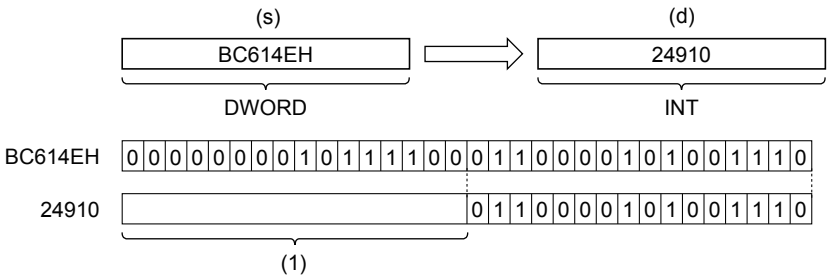
■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s(IN)	Input	Input variable	DWORD
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(DWORD_TO_INT(_E))	Output	Output variable	INT

Processing details

■Operation processing

- These functions convert the DWORD type data input to (s) to INT type data and output from (d).
- The information stored in high-order 16 bits of an input value is discarded. (Refer to (1) in the figure below.)



- A value input to (s) is the DWORD type data value.

■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.

Point

When DWORD_TO_INT(_E) is executed, the information stored in high-order 16 bits of the DWORD type data value input from (s) is discarded.

Operation error

There is no operation error.