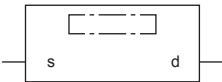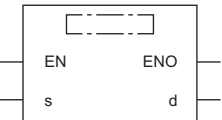# 20.29 Converting DINT to BCD

DINT_TO_BCD(_E)

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

These functions convert DINT type data to BCD type data.

Ladder diagram, FBD/LD		Structured text

[Without EN/ENO]	[With EN/ENO]	[Without EN/ENO]
		d:=DINT_TO_BCD(s);
		[With EN/ENO]
		d:=DINT_TO_BCD_E(EN,ENO,s);

s — d	EN — ENO s — d	

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	DINT
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(DINT_TO_BCD(_E))	Output	Output variable	ANY_BIT

Processing details

■Operation processing

- These functions convert the DINT type data input to (s) to BCD type data and output from (d).
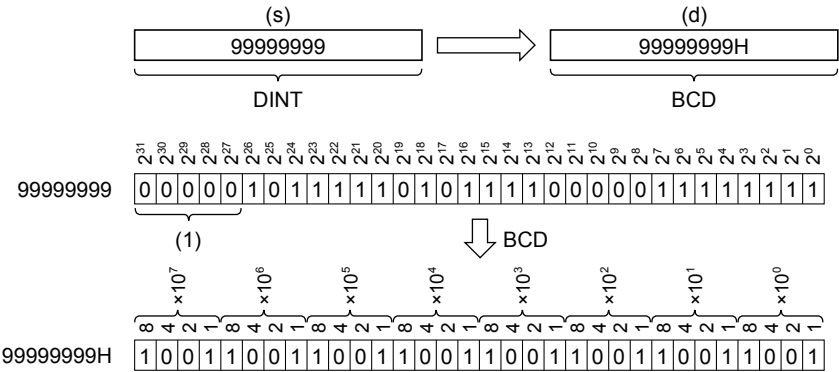
(1): Make sure to set them to "0".

- A value input to (s) is the DINT type data value. When (d) is WORD, the input value is within the range from 0 to 9999.
  When (d) is DWORD, the input value is within the range from 0 to 99999999.
- WORD or DWORD can be specified to (d). BOOL cannot be specified.

■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

- When (d) is WORD

Error code (SD0/SD8067)	Description
3401H	The 32-bit signed binary data in the device specified by (s) is out of the valid range (-32768 to 32767).
	Data in the device specified by (s) is out of the valid range (0 to 9999).

- When (d) is DWORD

Error code (SD0/SD8067)	Description
3401H	Data in the device specified by (s) is out of the valid range (0 to 99999999).