

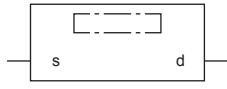
20.30 Converting DINT to REAL

DINT_TO_REAL(_E)

FX5S FX5U FX5U FX5UC

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These functions convert DINT type data to REAL type data.

Ladder diagram, FBD/LD	Structured text
[Without EN/ENO] 	[With EN/ENO]  [Without EN/ENO] d:=DINT_TO_REAL(s); [With EN/ENO] d:=DINT_TO_REAL_E(EN,ENO,s);

Setting data

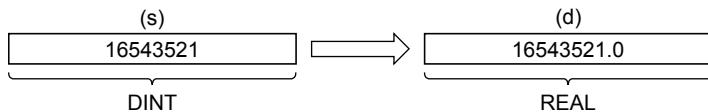
■ Descriptions, types, and data types

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

Processing details

■ Operation processing

- These functions convert the DINT type data input to (s) to REAL type data and output from (d).



- A value input to (s) is the DINT type data value.
- The number of significant figures of the REAL type data is approximately 7 since the data is processed in 32-bit single precision.
- The converted data includes an error (rounding error) if an integer value is outside the range of -16777216 to 16777215.

■ 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.