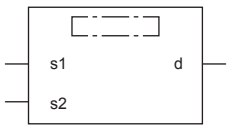
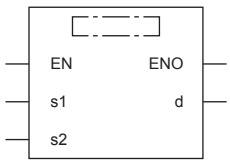
22.5 Remainder

MOD(_E)

FX5S FX5UJ FX5U FX5UC

These functions output the remainder of input values ((s1) ÷ (s2)).

Ladder diagram, FBD/LD		Structured text
[Without EN/ENO] 	[With EN/ENO] 	[Without EN/ENO] The function is described as an operator. (MELSEC iQ-F FX5 Programming Manual (Program Design)) [With EN/ENO] d:=MOD_E(EN,ENO,s1,s2);

Setting data

■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s1(IN1)	Dividend	Input variable	ANY_INT
s2(IN2)	Divisor	Input variable	ANY_INT
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(MOD(_E))	Output	Output variable	ANY_INT

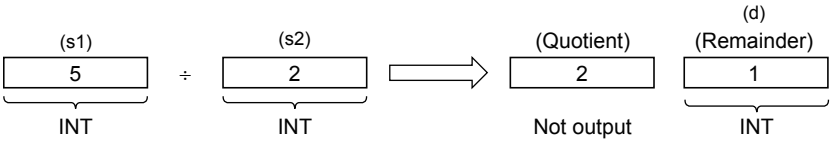
Processing details

■Operation processing

- These functions divide the INT or DINT type data input to (s1) and (s2) ((s1) ÷ (s2)), and output the remainder from (d) in the same data type as (s).

Ex.

Data type is INT



- A value input to (s1) and (s2) is the INT and DINT type data value. (However, input other than 0 to (s2).)

■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

- (s1) and (s2) are INT

Error code (SD0/SD8067)	Description
3400H	The value (divisor) specified by (s2) is 0.

- (s1) and (s2) are DINT

Error code (SD0/SD8067)	Description
3400H	The value (divisor) specified by (s2) is 0.