

# 27 CHARACTER STRING FUNCTIONS

## 27.1 Character String Length Detection

### LEN(\_E)

27

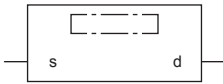
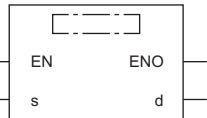
FX5S

FX5UJ

FX5U

FX5UC

These functions detect the length of an input character string and output the result.

Ladder diagram, FBD/LD		Structured text
[Without EN/ENO]	[With EN/ENO]	[Without EN/ENO] d:=LEN(s); [With EN/ENO] d:=LEN_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	STRING(255)
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(LEN(_E))	Output	Output variable	INT

### Processing details

#### ■Operation processing

- These functions detect the length of a character string input to (s) and output the result from (d).

	High-order byte	Low-order byte	
+0	ASCII code for 2nd character	ASCII code for 1st character	
+1	ASCII code for 4th character	ASCII code for 3rd character	
+2	ASCII code for 6th character	ASCII code for 5th character	
...	...	...	
+n	00H (Indicates the end of the character string.)	ASCII code for (n)th character	

⇒ Character string length  
INT

- A value input to (s) is the STRING type data value and within the range from 0 to 255 byte(s).

#### ■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 <sup>*1</sup>	Indefinite value

<sup>\*1</sup> 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.