

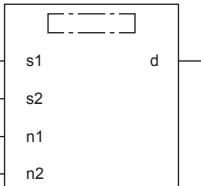
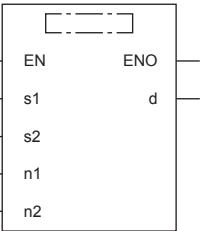
27.7 Replacing Character String

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REPLACE(_E)

FX5S FX5UJ FX5U FX5UC

These functions replace an arbitrary range of a character string and output the result.

Ladder diagram, FBD/LD	Structured text
[Without EN/ENO]  [With EN/ENO] 	[Without EN/ENO] d:=REPLACE(s1,s2,n1,n2); [With EN/ENO] d:=REPLACE_E(EN,ENO,s1,s2,n1,n2);

Setting data

■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s1(IN1), s2(IN2)	Input	Input variable	STRING(255)
n1(L)	Specification of number of characters to be replaced	Input variable	INT
n2(P)	Specification of head character position of a character string to be replaced	Input variable	INT
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(REPLACE(_E))	Output	Output variable	STRING(255)

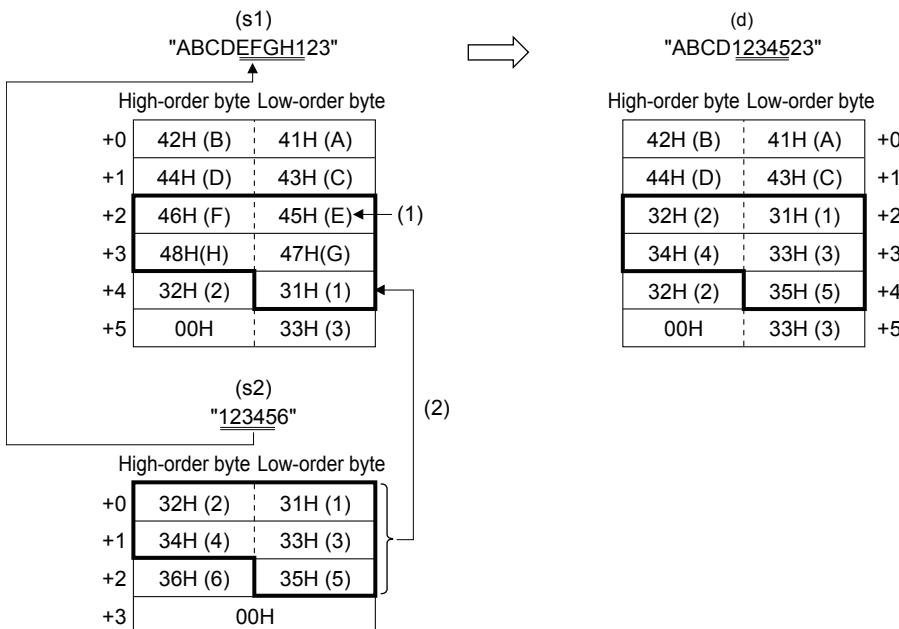
Processing details

■Operation processing

- These functions replace the data for the specified number of characters from an arbitrary position of a character string input to (s1) with a character string input to (s2) and output from (d).
- The value input to (n1) specifies the number of characters to be replaced.
- The value input to (n2) specifies the number of the head character position of a character string to be replaced.

Ex.

When the value input to (n1) and (n2) is 5



(1): Head character position of a character string to be replaced n2: 5th character

(2): Number of characters to be replaced n1: 5

- A value input to (s1) and (s2) is the STRING type data value and within the range from 0 to 255 byte(s).
- A value input to (n1) is the INT type data value and within the range from 0 to 255. (However, the value must be within the number of characters of the character string to be input to (s1).)
- A value input to (n2) is the INT type data value and within the range from 1 to 255. (However, the value must be within the number of characters of the character string to be input to (s1).)

■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

Error code (SD0/SD8067)	Description
2820H	"00H" is not set to devices from the device number specified by (s1) to the end device number of corresponding device. "00H" is not set to devices from the device number specified by (s2) to the end device number of corresponding device.
3405H	The character strings specified by (s1) have more than 255 characters. The character strings specified by (s2) have more than 255 characters. The device value specified by (n1) is out of the valid range (0 to 255). The device value specified by (n2) is out of the valid range (1 to 255). (n1) exceeds the number of characters of a character string specified by (s2). (n2) exceeds the number of characters of a character string specified by (s1).
3406H	The whole deleted character string cannot be stored in the devices from the device specified by (d) to the last device of the target device.