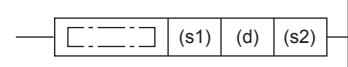


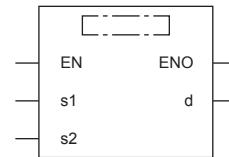
# Inserting character string

## STRINS(P)

FX5S FX5UJ FX5U FX5UC

These instructions insert the character string specified by (s1) at the (s2)th character from the start of the character string specified by (d).

Ladder diagram	Structured text
	ENO:=STRINS(EN,s1,s2,d); ENO:=STRINSP(EN,s1,s2,d);

FBD/LD


## Setting data

### ■Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(s1)	Character string to be inserted or head device number storing the character string to be inserted	—	Character string	ANYSTRING_SINGLE
(d)	Head device number storing a character string to which another character string is inserted	—	Character string	ANYSTRING_SINGLE
(s2)	Insertion position (in units of bytes)	1 to 16383	16-bit signed binary	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

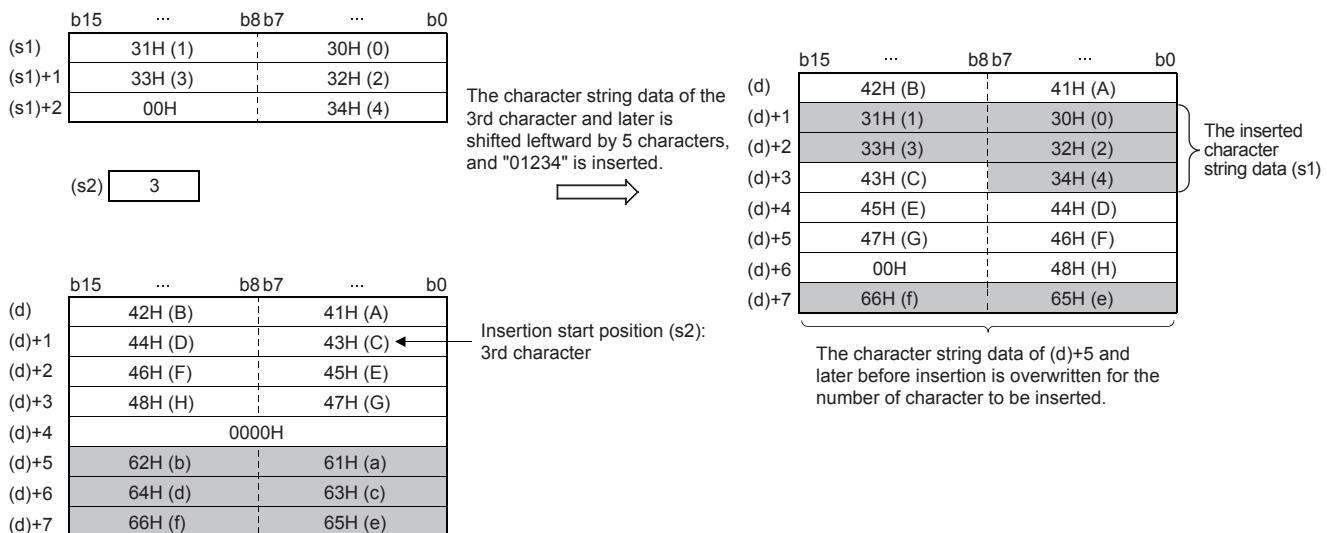
### ■Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others
		X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC		K, H	E	\$	
(s1)	—	○*1	—	—	—	—	○	—	—	○	—
(d)	—	○*1	—	—	—	—	○	—	—	—	—
(s2)	○	○	○	○	○	—	○	○	—	—	—

\*1 T, ST, and C cannot be used.

## Processing details

- These instructions insert the character string specified by (s1) at the (s2)th character from the start of the character string specified by (d).



- When the number of characters after insertion, (s1)+(d), is even, a NULL code (00H) is stored in the device (1 word) after the last device storing the character string.
- When the number of characters after insertion, (s1)+(d), is odd, a NULL code (00H) is stored in the last device (upper 8 bits) of the character string.
- If the number of characters exceeding (d) by one character is specified in (s2), the character string in (s1) is added to the end of the character string in (d).

## Operation error

Error code (SD0/SD8067)	Description
2820H	No NULL code (00H) exists in the corresponding device range of the device specified by (s1) and later. No NULL code (00H) exists in the corresponding device range of the device specified by (d) and later.
2821H	A device of the character strings (s1) and (d) overlaps. The device storing the character string after insertion, (s1)+(d), overlaps with the character string-storing device of (s1).
3405H	The character string specified by (s1) has more than 16383 characters. The character string specified by (d) has more than 16383 characters. (s2) is not within the range ( $1 \leq (s2) \leq 16383$ ) The value specified by (s2) exceeds "the number of characters of the character string (d) + 1".
3406H	The character string after insertion, (s1)+(d), has more than 16383 characters. The character string after insertion, (s1)+(d), exceeds the corresponding device range.