Deleting character string

STRDEL(P)

| FX5S | FX5UJ | FX5U | FX5UC |

These instructions delete (n) characters starting from the (s)th character (deletion start position) from the start of the character string data specified by (d).

Ladder diagram	Structured text
⎯⎯[□:□] (d) (s) (n) ⎯⎯	ENO:=STRDEL(EN,s,n,d); ENO:=STRDELP(EN,s,n,d);

FBD/LD
┌─ □:□ ─┐ ─ EN   ENO ─ ─ s   d ─ ─ n

Setting data

■Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(d)	Head device number storing a character string having characters to be deleted	—	Character string	ANYSTRING_SINGLE
(s)	Deletion start position	1 to 16383	16-bit signed binary	ANY16
(n)	Number of characters to be deleted	0 to 16384	16-bit signed binary	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL
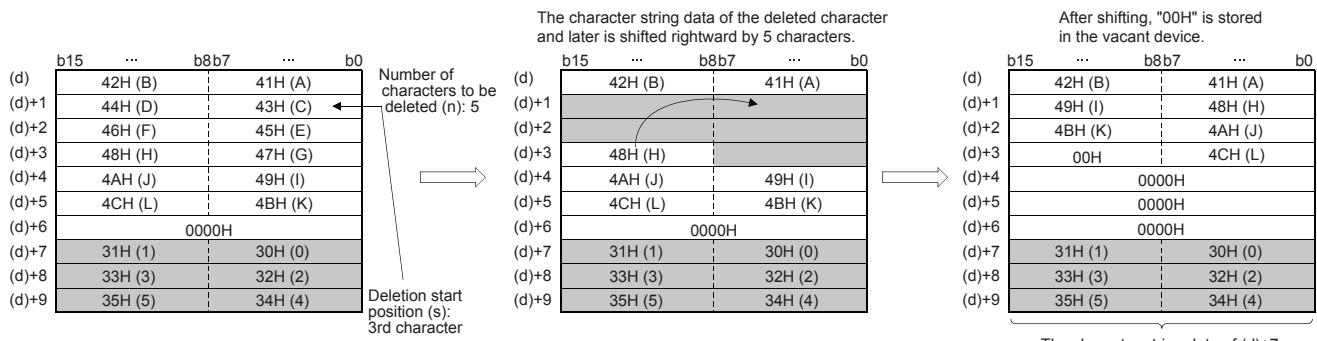
■Applicable devices

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	LZ		K, H	E	$	
(d)	—	○*1	—	—	—	—	○	—	—	—	—
(s)	—	○	○	○	—	—	○	○	—	—	—
(n)	○	○	○	○	—	—	○	○	—	—	—

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

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Processing details

- These instructions delete (n) characters starting from the (s)th character (deletion start position) from the start of the character string data specified by (d).

The character string data of the deleted character and later is shifted rightward by 5 characters.

After shifting, "00H" is stored in the vacant device.

The character string data of (d)+7 and later does not change.

- When the number of characters after deletion, (d), is even, a NULL code (00H) is stored in the device after the last device storing the character string.
- When the number of characters after deletion, (d), is odd, a NULL code (00H) is stored in the last device (upper 8 bits) of the character string.
- The character string after the deleted character string is shifted by (n) characters, a NULL code (00H) is stored in vacant devices.

Operation error

Error code (SD0/SD8067)	Description
2820H	No NULL code (00H) exists in the corresponding device range of the device specified by (d) and later.
3405H	The character string specified by (d) has more than 16383 characters.
	(s) is not within the range (1≤(s)≤16383)
	The value specified by (s) exceeds the number of characters of the character string (d).
	The value specified by (n) exceeds the number of characters from (s) to the last of the character string (d).