

# Shifting n-bit data to the right by 1 bit

## BSFR(P)

- FX5S
- FX5UJ
- FX5U
- FX5UC

These instructions shift (n) point(s) of data to the right by 1 bit from the device specified by (d).

Ladder diagram	Structured text
	ENO:=BSFR(EN,n,d); ENO:=BSFRP(EN,n,d);

FBD/LD

### Setting data

#### ■Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(d)	Head device number to be shifted	—	Bit	ANY_BOOL
(n)	Number of devices to be shifted	0 to 65535	16-bit unsigned binary	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

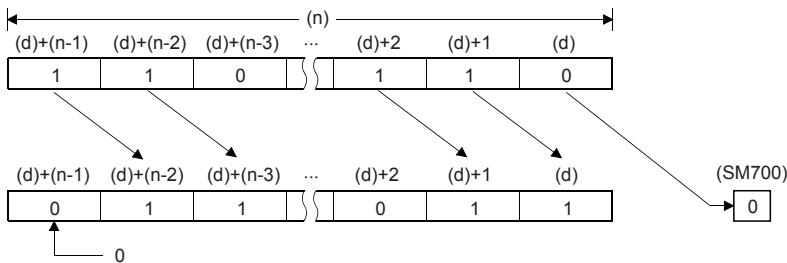
#### ■Applicable devices

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	—	—	—	—	—	—	—	—	—
(n)	○	○	○	○	—	—	○	○	—	—	—

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

### Processing details

- These instructions shift (n) point(s) of data to the right by 1 bit from the device specified by (d).



- The value of the device specified by (d) + (n-1) becomes 0.

#### ■Related devices

Device	Name	Description
SM700	Carry	ON/OFF according to the status (1/0) of the (d) bit.

## Operation error

Error code (SD0/SD8067)	Description
2820H	The (n) points of data starting from the device specified by (d) exceed in the corresponding device.