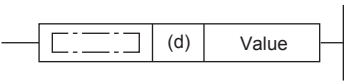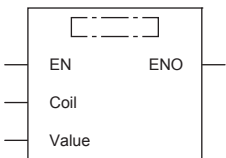# Counter

OUT C

FX5S FX5UJ FX5U FX5UC

This instruction increments the current value of the counter specified by (d) by 1 when the operation result up to OUT instruction changes from OFF to ON, and when the counter reaches the end of its count, NO contact becomes conductive and NC contact becomes non-conductive.

Ladder diagram	Structured text
 Value: Set value	ENO:=OUT_C(EN,Coil,Value);

FBD/LD
 ("OUT_C" enters □.)

Setting data

■Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(d)[1]	Counter Number	—	Counter	ANY[3]
(Set value)[2]	Counter set value	0 to 32767	16-bit unsigned binary	ANY_INT[4]
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

[1] In the case of the ST language and the FBD/LD language, d displays as Coil.
[2] In the case of the ST language and the FBD/LD language, Set value displays as Value.
[3] Only counter type label can be used.
[4] Digit specified bit type label cannot be used.

■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]	—	—	—	—	—	—	—	—	—
(Set value)	—	○[2]	○	—	—	—	—	○[3]	—	—	—

[1] Only C can be used.
[2] T, ST, and C cannot be used.
[3] Only decimal constant (K) can be used.

Processing details

- This instruction increments the current value of the counter specified by (d) by 1 when the operation result up to OUT instruction changes from OFF to ON, and when the counter reaches the end of its count (current value ≥ set value), NO contact becomes conductive and NC contact becomes non-conductive.
- The counter does not count while the operation result remains on. (Count input does not need to be converted to pulses.)
- After a count up, the count value and contact status do not change until the RST instruction is executed.
- When the set value is 0, the same processing as for set value 1 is performed.

Operation error

Error code (SD0/SD8067)	Description
3405H	A negative value is specified for the set value.