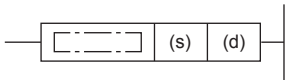
Inverting and transferring 16-bit data

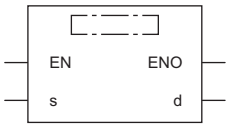
CML(P)

FX5S FX5UJ FX5U FX5UC

These instructions invert each bit of the 16-bit binary data in the device specified by (s), and transfer the result to the device specified by (d).

Ladder diagram	Structured text
	ENO:=CML(EN,s,d); ENO:=CMLP(EN,s,d);

FBD/LD



Setting data

■Descriptions, ranges, and data types

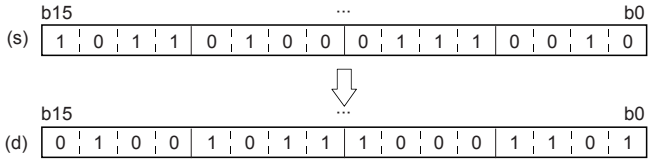
Operand	Description	Range	Data type	Data type (label)
(s)	Data to be inverted or device number in which data is stored	-32768 to +32767	16-bit signed binary	ANY16
(d)	Device number for storing the inversion result	—	16-bit signed binary	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	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	$	
(s)	○	○	○	○	—	—	○	○	—	—	—
(d)	○	○	○	○	—	—	○	—	—	—	—

Processing details

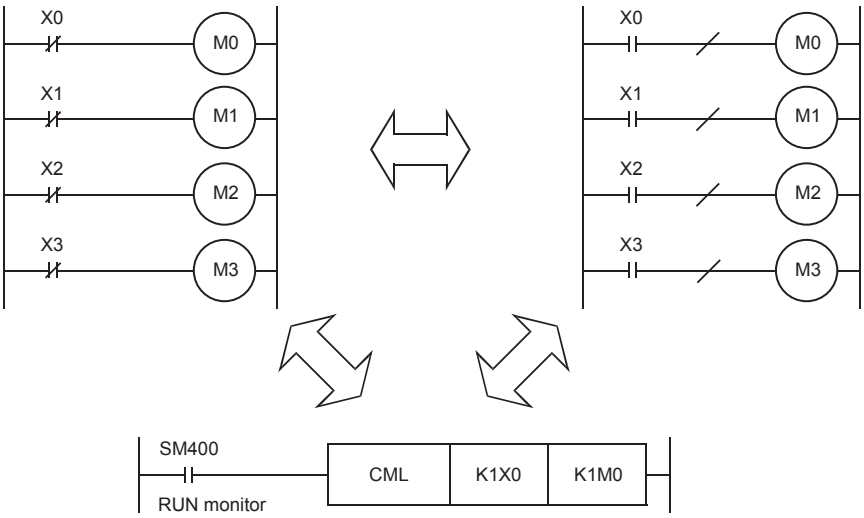
- These instructions invert each bit of the 16-bit binary data in the device specified by (s), and transfer the result to the device specified by (d).



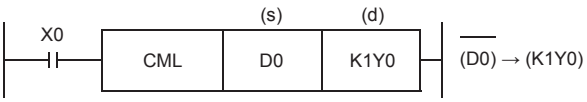
Program example

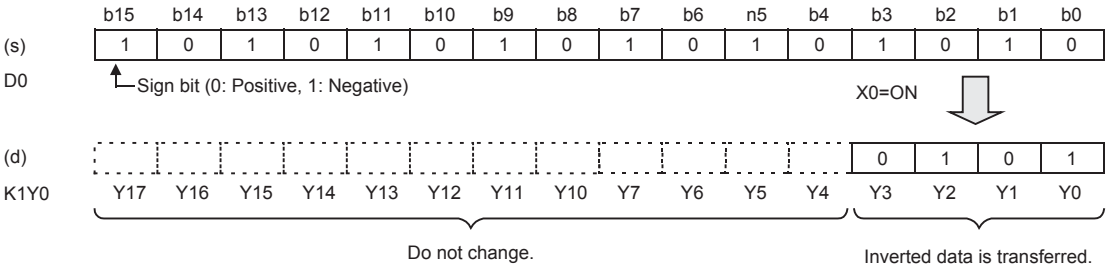
• When receiving an inverted input

The sequence program shown below can be written by CML instruction.



• When four bits are specified for a device with digit specification





Operation error

There is no operation error.