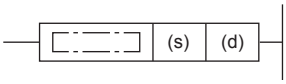
Performing an AND operation on 32-bit data

DAND(P) [using two operands]

FX5S FX5UJ FX5U FX5UC

These instructions AND each bit of 32-bit binary data from the device specified by (d) and each bit of 32-bit binary data from device specified by (s), and store the results in the device specified by (d).

Ladder diagram	Structured text
	Not supported ☞ Page 283 DAND(P) [using three operands]

FBD/LD
Not supported. ☞ Page 283 DAND(P) [using three operands]

Setting data

■Descriptions, ranges, and data types

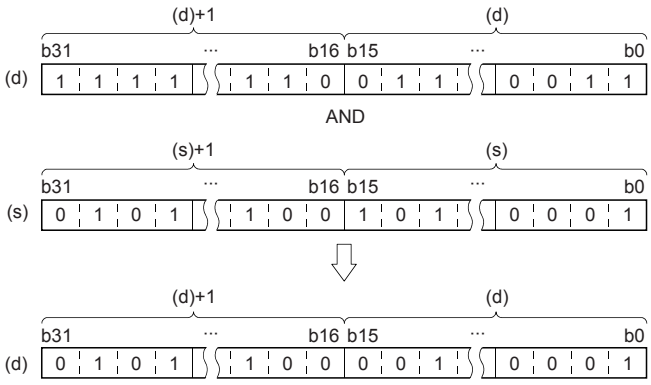
Operand	Description	Range	Data type	Data type (label)
(s)	Data for AND or head device where the data is stored	-2147483648 to +2147483647	32-bit signed binary	ANY32
(d)	Head device for storing AND results	-2147483648 to +2147483647	32-bit signed binary	ANY32

■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 AND each bit of 32-bit binary data from the device specified by (d) and each bit of 32-bit binary data from device specified by (s), and store the results in the device specified by (d).



- Bit devices subsequent to number of points by digit specification are calculated as 0.

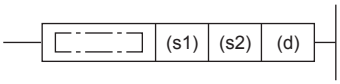
Operation error

There is no operation error.

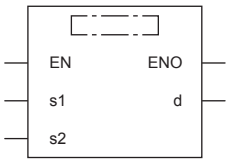
DAND(P) [using three operands]

FX5S FX5UJ FX5U FX5UC

These instructions AND each bit of 32-bit binary data from the device specified by (s1) and each bit of 32-bit binary data from device specified by (s2), and store the results in the device specified by (d).

Ladder diagram	Structured text
	ENO:=DAND(EN,s1,s2,d); ENO:=DANDP(EN,s1,s2,d);

FBD/LD



Setting data

■Descriptions, ranges, and data types

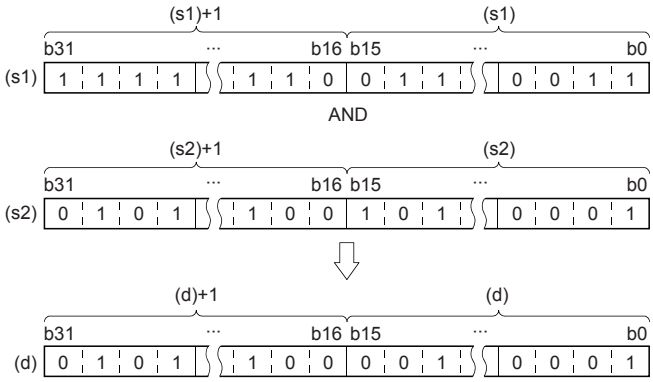
Operand	Description	Range	Data type	Data type (label)
(s1)	Data for AND or head device where the data is stored	-2147483648 to +2147483647	32-bit signed binary	ANY32
(s2)	Data for AND or head device where the data is stored	-2147483648 to +2147483647	32-bit signed binary	ANY32
(d)	Head device for storing AND results	—	32-bit signed binary	ANY32
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	$	
(s1)	○	○	○	○	○	○	○	○	—	—	—
(s2)	○	○	○	○	○	○	○	○	—	—	—
(d)	○	○	○	○	○	○	○	—	—	—	—

Processing details

- These instructions AND each bit of 32-bit binary data from the device specified by (s1) and each bit of 32-bit binary data from device specified by (s2), and store the results in the device specified by (d).



- Bit devices subsequent to number of points by digit specification are calculated as 0.

Operation error

There is no operation error.