

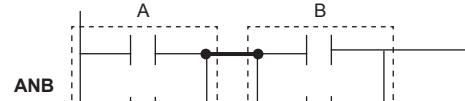
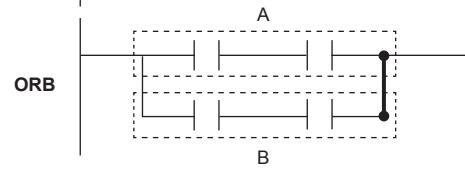
6.2 Association Instruction

Ladder block series/parallel connection

ANB, ORB

FX5S FX5UJ FX5U FX5UC

These instructions AND or OR the A and B blocks, and use the result as the operation result.

Ladder diagram	Structured text
 ANB A: A block B: B block	Not supported.
 ORB A: A block B: B block	

FBD/LD

Not supported.

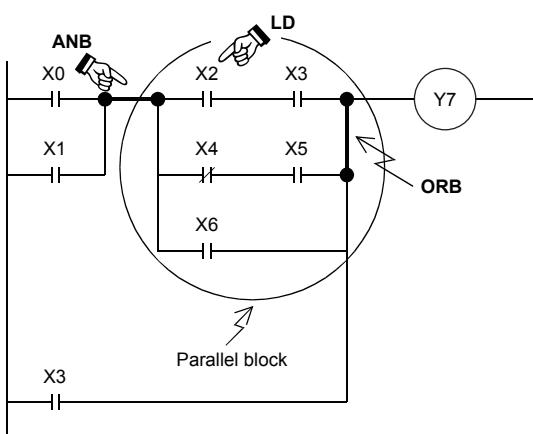
Processing details

■ANB

- This instruction ANDs the A and B blocks, and uses the result as the operation result.
- The symbol of this instruction is not NO contact symbol but a connection symbol.

Ex.

ANB instruction (series connection of ladder block)



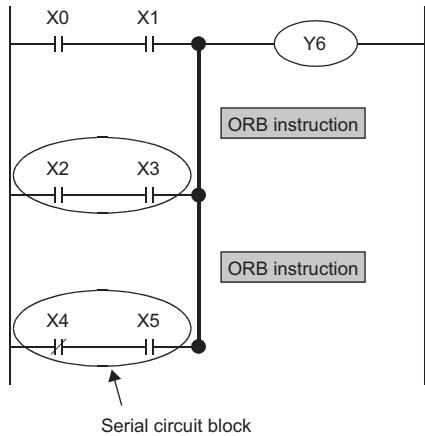
■ORB

- This instruction ORs the A and B blocks, and uses the result as the operation result.
- This instruction connects the ladder blocks of two contacts or more in parallel. For parallel connection of only one contact, use the OR and ORI instructions; there is no need to use this instruction.
- The symbol of this instruction is not NO contact symbol but a connection symbol.

Point

- The number of parallel circuits that can be connected by the ORB instruction is not limited. (when the recommended program is used)
- The ORB instruction can be used by one operation. However, note that the LD instruction and the LDI instruction can repeatedly be used 8 times or less. (when the recommended program is not used)

Circuit program



List program

	Appropriate program	Inappropriate program
0	LD X0	0 LD X0
1	AND X1	1 AND X1
2	LD X2	2 LD X2
3	AND X3	3 AND X3
4	ORB	4 LDI X4
5	LDI X4	5 AND X5
6	AND X5	6 ORB
7	ORB	7 ORB
8	OUT Y6	8 OUT Y6

Operation error

There is no operation error.