

Checking the status of a block

LD, LDI, AND, ANI, OR, ORI [BL□]

FX5S FX5UJ FX5U FX5UC

- LD: Normally open contact, LDI: Normally closed contact

These instructions output the status (active or inactive) of the specified block as the operation result.

- AND: Normally open contact series connection, ANI: Normally closed contact series connection

These instructions perform an AND operation between the status (active or inactive) of the specified block and the previous operation result(s), and output the operation result.

- OR: Single normally open contact parallel connection, ORI: Single normally closed contact parallel connection

These instructions perform an OR operation between the status (active or inactive) of the specified block and the previous operation result(s), and output the operation result.

Ladder diagram		Structured text
LD		Not supported.
LDI		
AND		
ANI		
OR		
ORI		

FBD/LD
Not supported.

Setting data

■ Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(s)	Device used as a contact	—	Bit	ANY_BOOL

■ Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others (BL□)
		X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC		K, H	E	\$	
(s)	—	—	—	—	—	—	—	—	—	—	○

Processing details

- These instructions check whether the specified block is active or not.
- The status (on or off) of each contact will be as follows depending on the status (active or inactive) of the specified block.

Status of the specified block	Contact of the normally open contact instruction	Contact of the normally closed contact instruction
Active	ON	OFF
Inactive*1	OFF	ON

*1 Including the cases where no corresponding block exists in an SFC program.

- If the block No. specified is out of range, both of the normally open contact and normally closed contact turn off.
- If the instruction is executed while no SFC program exists (SM320 (Presence/absence of SFC program) is off) or SM321 (Start/stop SFC program) is off and the specified block No. is within the range, the normally open contact instruction turns off and the normally closed contact instruction turns on.

Operation error

Error code (SD0/SD8067)	Description
2820H	When the specified block No. is out of the range of 0 to 31.
3582H	The SFC control instruction is used in the interrupt routine program.