

Performing an XOR operation on 16-bit data

WXOR(P) [using two operands]

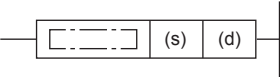
FX5S

FX5UJ

FX5U

FX5UC

These instructions exclusive OR each bit of 16-bit binary data from the device specified by (d) and each bit of 16-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 295 WXOR(P) [using three operands]
FBD/LD	
Not supported. ☞ Page 295 WXOR(P) [using three operands]	

Setting data

■Descriptions, ranges, and data types

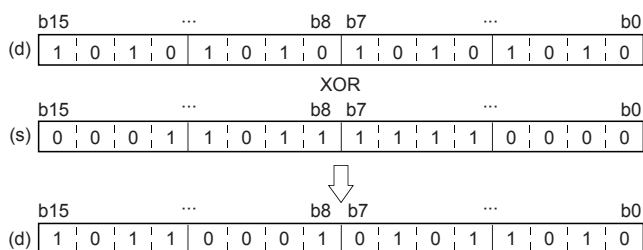
Operand	Description	Range	Data type	Data type (label)
(s)	Data for exclusive OR or head device where data is stored	-32768 to +32767	16-bit signed binary	ANY16
(d)	Head device for storing exclusive OR results	-32768 to +32767	16-bit signed binary	ANY16

■Applicable devices

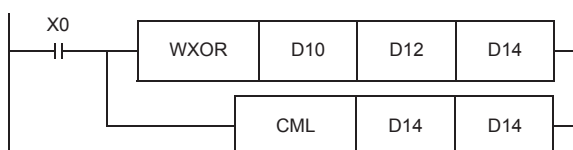
Operand	Bit	Word			Double word		Indirect specification	Constant			Others
	X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC	LZ		K, H	E	\$	
(s)	○	○	○	○	—	—	○	○	—	—	—
(d)	○	○	○	○	—	—	○	—	—	—	—

Processing details

- These instructions exclusive OR each bit of 16-bit binary data from the device specified by (d) and each bit of 16-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.
- By combining WXOR and CML instructions, the exclusive logical sum not (XORNOT) operation can be executed as well as the WXNR instruction.



Operation error

There is no operation error.

WXOR(P) [using three operands]

FX5S

FX5UJ

FX5U

FX5UC

These instructions exclusive OR each bit of 16-bit binary data from the device specified by (s1) and each bit of 16-bit binary data from device specified by (s2), and store the results in the device specified by (d).

Ladder diagram	Structured text
	<pre>ENO:=WXOR(EN,s1,s2,d); ENO:=WXORP(EN,s1,s2,d);</pre>
FBD/LD	

Setting data

■Descriptions, ranges, and data types

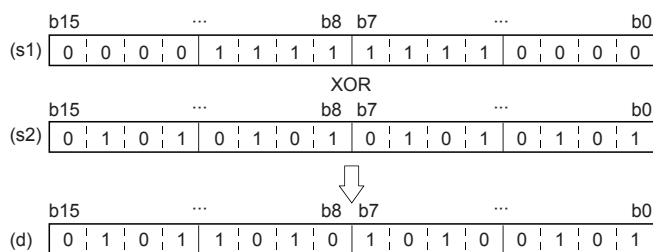
Operand	Description	Range	Data type	Data type (label)
(s1)	Data for exclusive OR or head device where data is stored	-32768 to +32767	16-bit signed binary	ANY16
(s2)	Data for exclusive OR or head device where data is stored	-32768 to +32767	16-bit signed binary	ANY16
(d)	Head device for storing exclusive OR results	—	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	\$	
(s1)	○	○	○	○	—	—	○	○	—	—	—
(s2)	○	○	○	○	—	—	○	○	—	—	—
(d)	○	○	○	○	—	—	○	—	—	—	—

Processing details

- These instructions exclusive OR each bit of 16-bit binary data from the device specified by (s1) and each bit of 16-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.