

# Exchanging 16-bit data

## XCH(P)

FX5S FX5UJ FX5U FX5UC

These instructions exchange 16-bit binary data of (d1) and (d2).

Ladder diagram	Structured text
	ENO:=XCH(EN,d1,d2); ENO:=XCHP(EN,d1,d2);
<b>FBD/LD</b>	

## Setting data

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### ■Descriptions, ranges, and data types

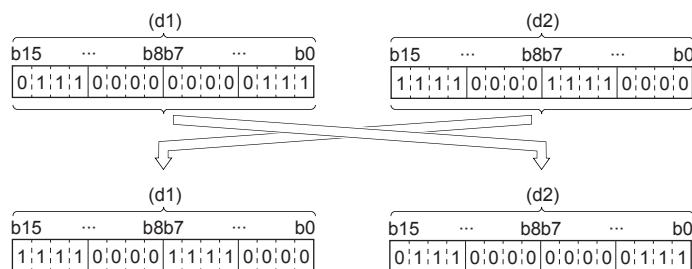
Operand	Description	Range	Data type	Data type (label)
(d1)	Head device for storing the data to be exchanged	—	16-bit signed binary	ANY16
(d2)	Head device for storing the data to be exchanged	—	16-bit signed binary	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

### ■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	\$	
(d1)	○	○	○	○	—	—	○	—	—	—	—
(d2)	○	○	○	○	—	—	○	—	—	—	—

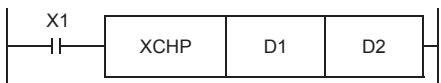
## Processing details

These instructions exchange 16-bit binary data of (d1) and (d2).



## Program example

This program exchanges the contents of D1 and D2 when X1 is set to ON.



## Operation error

There is no operation error.