

Sending data

SP.SOCSND

FX5S FX5UJ FX5U FX5UC

This instruction sends data.

Ladder diagram	Structured text
	ENO:=SP_SOCSND(EN,U0,s1,s2,s3,d);
FBD/LD	

("SP_SOCSND" enters □.)

Setting data

■ Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(U) ^{*1}	Dummy (Input the character string ['U0'].)	—	Character string	— ^{*2} (ANYSTRING_SINGLE)
(s1)	Connection number	1 to 8	16-bit unsigned binary	ANY16
(s2)	Head device number for specifying the control data (Page 1039)	Refer to Control data	Word	ANY16_ARRAY (Number of elements: 2)
(s3)	Head device number for storing the send data	—	Word	ANY16
(d)	Head device number which turns ON when the execution of the instruction is completed and remains on for 1 scan. If the instruction is completed with an error, (d)+1 is also turned on.	—	Bit	ANYBIT_ARRAY (Number of elements: 2)
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

*1 In the case of the ST language and the FBD/LD language, U displays as U0.

*2 Regardless of the program language to be used, the data type is specified by a device. Do not specify a label.

■ 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		K, H	E	\$	
(U)	—	—	—	—	—	—	—	—	—	○	—
(s1)	—	○	—	—	—	—	○	○	—	—	—
(s2)	—	○	—	—	—	—	○	—	—	—	—
(s3)	—	○	—	—	—	—	○	—	—	—	—
(d)	○	○ ^{*1}	—	—	—	—	—	—	—	—	—

*1 T, ST, and C cannot be used.

■Control data

Device	Item	Description	Setting range	Set by ^{*1}
(s2)+0	System area	—	—	—
(s2)+1	Completion status	The status at the completion of the instruction is stored. 0000H: Completed successfully Other than 0000H: Completed with an error (error code) For error codes, refer to MELSEC iQ-F FX5 User's Manual (Communication).	—	System
(s3)+0	Send data length	Specifies the send data length. (Number of bytes)	1 to 2046	User
(s3)+1 to (s3)+n	Send data	Specifies the send data.	—	User

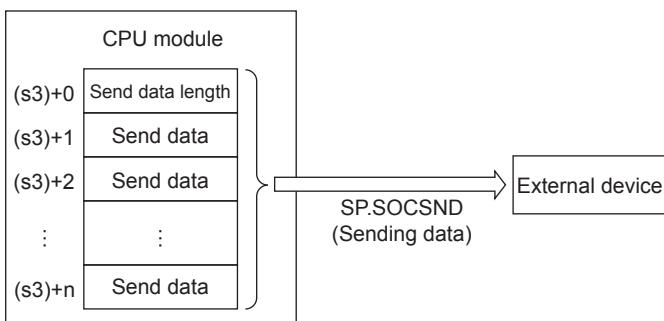
*1 User: Data to be set before the execution of the instruction. System: The CPU module stores the execution result of the instruction.



When TCP is used, specify send data length that is smaller than the maximum window size of the target device (Receive data buffer of TCP). Data whose size exceeds the maximum window size of the target device cannot be sent.

Processing details

This instruction send the data set by (s3) to the target device of the connection specified by (s1).



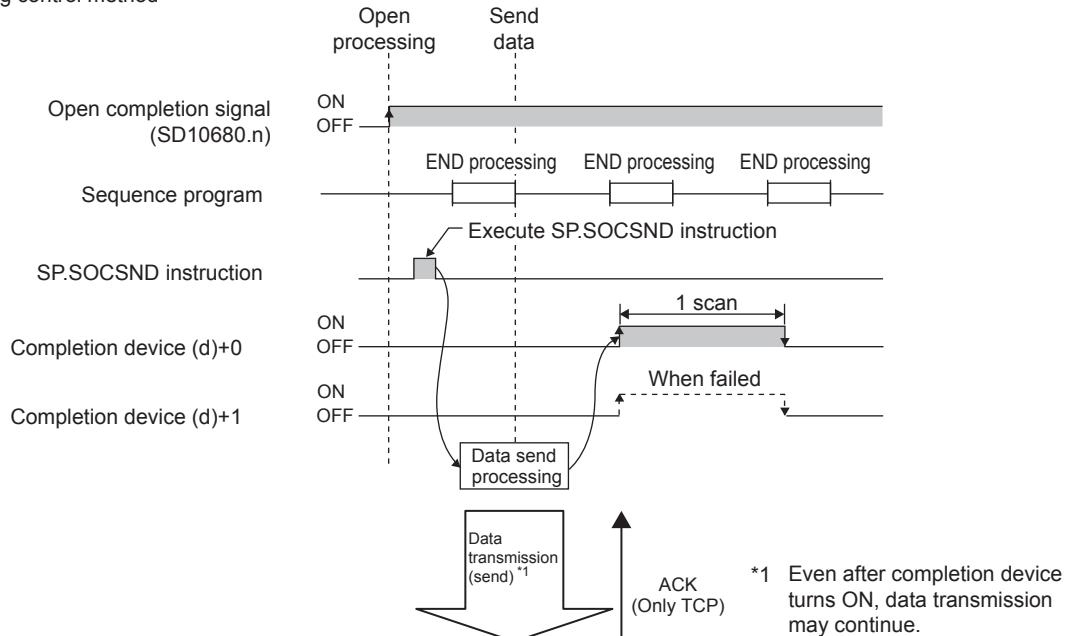
The completion of the SP.SOCSND instruction can be checked using the completion devices (d)+0 and (d)+1.

- Completion device (d)+0: Turns ON during the END processing for the scan in which the SP.SOCSND instruction is completed, and turns OFF during the next END processing.
- Completion device (d)+1: Turns ON or OFF depending on the status when the SP.SOCSND instruction is completed.

Status	Description
When completed normally	The device does not change (remains OFF).
When completed with an error	The device turns ON during the END processing for the scan in which the SP.SOCSND instruction is completed, and turns OFF during the next END processing.

The following figure shows the timing of the send processing with the SP.SOCSND instruction.

<Sending control method>



For details, refer to [MELSEC iQ-F FX5 User's Manual \(Communication\)](#).

Operation error

Error code (SD0/SD8067)	Description
3405H	The connection number specified by (s1) is other than 1 to 8.
2820H	The device number specified by (s2), (s3), or (d) is outside the range of the number of device points.
2822H	Device that cannot be specified is specified.
3582H	When an instruction which cannot be used in interruption routine program is used.