Reading connection information

SP.SOCCINF

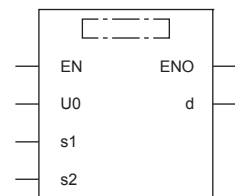| FX5S	FX5UJ	FX5U	FX5UC

This instruction reads the connection information.

Ladder diagram	Structured text
☐:☐:☐ (U) (s1) (s2) (d)	ENO:=SP_SOCCINF(EN,U0,s1,s2,d);

FBD/LD
☐:☐:☐   EN   ENO   U0   d   s1   s2   ("SP_SOCCINF" 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 storing the control data	Refer to Control data (☞ Page 1042)	Word	ANY16_ARRAY (Number of elements: 2)
(d)	Head device number for storing the connection information	—	Word	ANY16_ARRAY (Number of elements: 5)
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	LZ		K, H	E	$	
(U)	—	—	—	—	—	—	—	—	—	○	—
(s1)	—	○	—	—	—	—	○	○	—	—	—
(s2)	—	○	—	—	—	—	○	—	—	—	—
(d)	—	○	—	—	—	—	○	—	—	—	—

■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
(d)+0 (d)+1	Target device IP address	The IP address of the target device is stored.	1 to 3758096382 (00000001H to DFFFFFFEH)[2]	System
(d)+2	Target device port number	The port number of the target device is stored.	1 to 65534 (0001H to FFFEH)[2]	
(d)+3	Host station port number	The host station port number is stored.	1 to 5548, 5570 to 65534 (0001H to 15ACH, 15C2H to FFFEH)[2][3]	
(d)+4	Application setting area	b15 b14 b13 to b10 b9 b8 b7 to b0 (d)+4 [[3] | 0 | [2] | [1] | 0] [1] Communication method (protocol) 0: TCP/IP 1: UDP/IP [2] Procedure of the socket communication function 1: Non-protocol method [3] Open method 00: Active open or UDP/IP 10: Unpassive open 11: Fullpassive open	As shown on the left[2]	

*1 System: The CPU module stores the execution result of the instruction.

*2 When the instruction is executed for a connection that is not open, 0H is returned.

*3 Of the host station port numbers, 1 to 1023 (0001H to 03FFH) are generally reserved port numbers and 61440 to 65534 (F000H to FFFEH) are used by other communication functions. Thus, using 1024 to 5548 and 5570 to 61439 (0400H to 15ACH and 15C2H to EFFFH) as the port numbers is recommended. Do not specify 5549 to 5569 (15ADH to 15C1H) since they are used by the system.

Processing details

This instruction reads the connection information of the connection specified by (s1).

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) or (d) is outside the range of the number of device points.
2822H	Device that cannot be specified is specified.