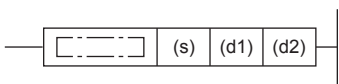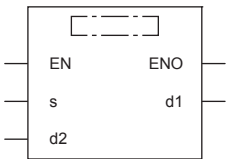# 32-bit data ABS current value read

DABS

| FX5S | FX5UJ | FX5U | FX5UC |

This instruction reads the absolute position (ABS) data when a servo amplifier (equipped with the absolute position detection function) is connected. The data is converted into pulse when read.

Ladder diagram	Structured text
─┤ ⬚⠂⠂⬚ ├─ (s) │ (d1) │ (d2) │─	ENO:=DABS(EN,s,d1,d2);

FBD/LD
⬚⠂⠂⬚   EN   ENO   s   d1   d2

Setting data

■Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(s)	Head device number that inputs the output signal for absolute position (ABS) data from the servo amplifier	—	Bit	ANYBIT_ARRAY (Number of elements: 3)
(d1)	Head device number that outputs the absolute position (ABS) data control signal to the servo amplifier	—	Bit	ANYBIT_ARRAY (Number of elements: 3)
(d2)	Absolute position (ABS) data (32-bit value)	—	32-bit signed binary	ANY32
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	$	
(s)	○	○*1	—	—	—	—	—	—	—	—	—
(d1)	○	○*1	—	—	—	—	—	—	—	—	—
(d2)	○	○	○	○	○	○	○	○	—	—	—

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

Processing details

This instruction reads the absolute position (ABS) data when a servo amplifier (equipped with the absolute position detection function) is connected. The data is converted into pulse when being read.

 • For (s), specify the head device number that inputs the output signal for absolute position (ABS) data from the servo amplifier.
 • For (d1), specify the head device number that outputs the absolute position (ABS) data control signal to the servo amplifier. Be sure to use transistor outputs for the CPU module outputs.
 • For (d2), specify the device that stores the absolute position (ABS) data read from the servo amplifier.

For details on the function and error code, refer to 📖MELSEC iQ-F FX5 User's Manual (Application).

Precautions

Three devices are occupied from the device specified in (s) and (d1). Make sure that these devices are not used in other controls.

For other precautions, refer to 📖MELSEC iQ-F FX5 User's Manual (Application).