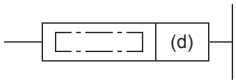
Returning all data of the index register

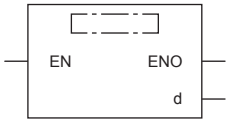
ZPOP(P)

FX5S FX5UJ FX5U FX5UC

These instructions read the data saved in the devices specified by (d) and later to index registers and long index registers.

Ladder diagram	Structured text
	ENO:=ZPOP(EN,d); ENO:=ZPOPP(EN,d);

FBD/LD



Setting data

■Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(d)	Head device number for returning the data of index registers	—	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	$	
(d)	—	○	—	—	—	—	○	—	—	—	—

Processing details

- These instructions read the data saved in the devices specified by (d) and later to index registers and long index registers.
- When the saved contents of the index registers and long index registers are read, "1" is subtracted from (d).
- The ZPUSH(P) instructions are used to temporarily save the data. The ZPUSH(P) and ZPOP(P) instructions are used in pairs.

Program example

For a program example, refer to ☞ Page 736 Saving all data of the index register.

Operation error

Error code (SD0/SD8067)	Description
2820H	The range of points used in (d) or later exceeds the range of the target device/label area.
3405H	(d) is 0 or negative.