

# Adding BCD 4-digit data

## B+(P) [using two operands]

FX5S FX5UJ FX5U FX5UC

These instructions add the BCD 4-digit data in the device specified by (d) and the BCD 4-digit data in the device specified by (s), and store the result in the device specified by (d).

Ladder diagram	Structured text
	Not supported ☞ Page 249 B+(P) [using three operands]

FBD/LD
Not supported. ☞ Page 249 B+(P) [using three operands]

### Setting data

#### ■ Descriptions, ranges, and data types

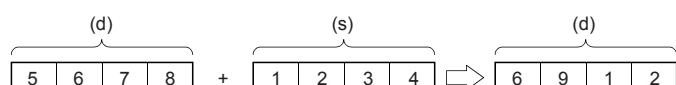
Operand	Description	Range	Data type	Data type (label)
(s)	Addend data or the device where the data that is added to another is stored	0 to 9999	BCD 4-digit	ANY16
(d)	Device where the data to which another is added is stored	0 to 9999	BCD 4-digit	ANY16

#### ■ Applicable devices

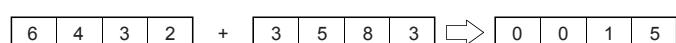
Operand	Bit	Word			Double word		Indirect specification	Constant			Others
	X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC	LZ		K, H	E	\$	
(s)	○	○	○	○	—	—	○	○	—	—	—
(d)	○	○	○	○	—	—	○	—	—	—	—

### Processing details

- These instructions add the BCD 4-digit data in the device specified by (d) and the BCD 4-digit data in the device specified by (s), and store the addition result in the device specified by (d).



- If the addition result exceeds 9999, carry is ignored. In this case, the carry flag (SM700) does not turn ON.



### Operation error

Error code (SD/SD8067)	Description
3405H	BCD data in the device specified by (s) is outside of the valid range (0 to 9999). BCD data in the device specified by (d) is outside of the valid range (0 to 9999).

## B+(P) [using three operands]

**FX5S** **FX5UJ** **FX5U** **FX5UC**

These instructions add the BCD 4-digit data in the device specified by (s1) and the BCD 4-digit data in the device specified by (s2), and store the result in the device specified by (d).

Ladder diagram	Structured text
	ENO:=BPLUS(EN,s1,s2,d); ENO:=BPLUSP(EN,s1,s2,d);

FBD/LD
 ("BPLUS", "BPLUSP" enters □.)

### Setting data

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#### ■ Descriptions, ranges, and data types

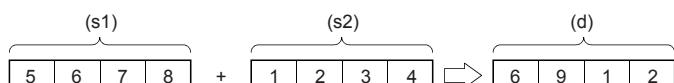
Operand	Description	Range	Data type	Data type (label)
(s1)	Augend data or the device where the data to which another is added is stored	0 to 9999	BCD 4-digit	ANY16
(s2)	Addend data or the device where the data that is added to another is stored	0 to 9999	BCD 4-digit	ANY16
(d)	Device for storing the operation result	0 to 9999	BCD 4-digit	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

#### ■ Applicable devices

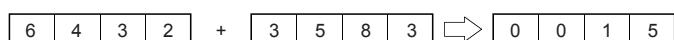
Operand	Bit	Word			Double word		Indirect specification	Constant			Others
		X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC		K, H	E	\$	
(s1)	○	○	○	○	—	—	○	○	—	—	—
(s2)	○	○	○	○	—	—	○	○	—	—	—
(d)	○	○	○	○	—	—	○	—	—	—	—

#### Processing details

- These instructions add the BCD 4-digit data in the device specified by (s1) and the BCD 4-digit data in the device specified by (s2), and store the addition result in the device specified by (d).



- If the addition result exceeds 9999, carry is ignored. In this case, the carry flag (SM700) does not turn ON.



#### Operation error

Error code (SD0/SD8067)	Description
3405H	BCD data in the device specified by (s1) is outside of the valid range (0 to 9999).
	BCD data in the device specified by (s2) is outside of the valid range (0 to 9999).