

Dividing BCD 8-digit data

DB/(P)

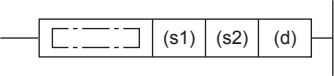
FX5S

FX5UJ

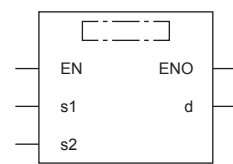
FX5U

FX5UC

These instructions divide the BCD 8-digit data specified by (s1) by the BCD 8-digit data specified by (s2), and store the results in the device specified by (d).

Ladder diagram	Structured text
	Not supported

FBD/LD



("DBDIVISION", "DBDIVISIONP" enters □.)

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Setting data

■Descriptions, ranges, and data types

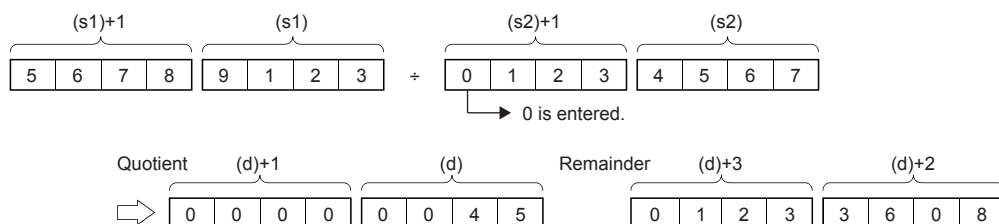
Operand	Description	Range	Data type	Data type (label)
(s1)	Dividend data or the head device where the data to be divided by another is stored	0 to 99999999	BCD 8-digit	ANY32
(s2)	Divisor data or the head device where the data by which another is to be divided is stored	0 to 99999999	BCD 8-digit	ANY32
(d)	Head device for storing the operation result	—	BCD 16-digit	ANY32_ARRAY (Number of elements: 2)
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	\$	
(s1)	○	○	○	○	○	○	○	○	—	—	—
(s2)	○	○	○	○	○	○	○	○	—	—	—
(d)	○	○	—	—	○	—	○	—	—	—	—

Processing details

- These instructions divide the BCD 8-digit data specified by (s1) by the BCD 8-digit data specified by (s2), and store the results of division in the device specified by (d).



(d)+1, (d)+3	(d), (d)+2
Upper 4 digits	Lower 4 digits

- The results of division are stored as quotient and remainder using 64 bit(s) binary.
- Quotient (BCD 8-digit): Stored in lower 32 bit(s).
- Remainder (BCD 8-digit): Stored in upper 32 bit(s).
- If (d) is specified by bit device, remainder of division results is not stored.

Operation error

Error code (SD0/SD8067)	Description
2820H	The device specified by (d) exceeds the corresponding device range.
3400H	0 is specified for (s2) value.
3405H	BCD data in the device specified by (s1) is outside of the valid range (0 to 99999999).
	BCD data in the device specified by (s2) is outside of the valid range (0 to 99999999).