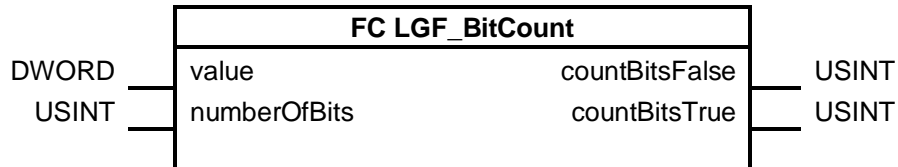


LGF_BitCount

Short description

This block counts the set (TRUE) and unset (FALSE) bits in a variable of the data type DWORD. Alternatively, Word and Byte can be used instead of DWord by converting the passed parameter with, for example, BYTE_TO_DWORD and the result with DWORD_TO_BYTE. The parameter “numberOfBits” defines how many bits are to be counted.

Block



Input parameters

Parameters	Data type	Description
value	DWORD	Variable at which the bit is toggled.
numberOfBits	USINT	Number of bits to be counted. Byte = 8, Word = 16, DWORD = 32

Output parameters

Parameters	Data type	Description
countBitsFalse	USINT	Number of bits not set.
countBitsTrue	USINT	Number of bits set.

Further information on libraries in TIA Portal:

- Topic page libraries
<https://support.industry.siemens.com/cs/ww/en/view/109738702>
- Guideline on Library Handling
<https://support.industry.siemens.com/cs/ww/en/view/109747503>
- Programming Guideline for S7-1200/1500 in chapter “Libraries”
<https://support.industry.siemens.com/cs/ww/en/view/81318674>
- Programming Styleguide
<https://support.industry.siemens.com/cs/ww/en/view/81318674>