

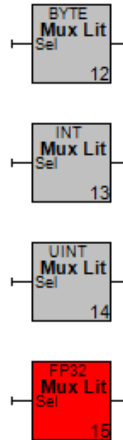
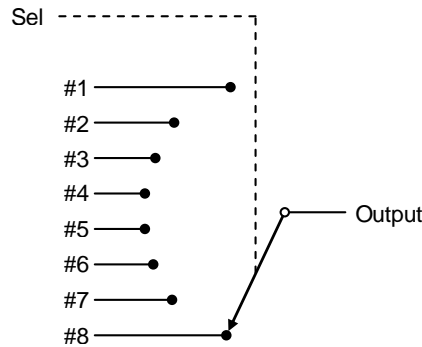
Function Block 41.. 44 1-of-8 MULTIPLEXOR

Function Description

These function blocks provide for the multiplexing/selecting of up to 8 internal literal values using a select input signal. The following data types are catered for:

- FB41 Byte values. (0...255)
- FB42 INT values. (-32768...32767)
- FB43 UINT values. (0...65535)
- FB44 Real values. (FP32 range)

The basic workings of these function blocks is probably best described by a figure where the value at the Sel input determines which of the values #1 to #8 will appear at the output.



frmPopup22

Function Block type: FB44

Multiplexor for 1of8 FP32 literals

Parameters

Literal 1 value	1.2
Literal 2 value	2.3
Literal 3 value	3.4
Literal 4 value	4.5
Literal 5 value	5.6
Literal 6 value	6.7
Literal 7 value	7.8
Literal 8 value	8.9

Execution Sequence Nr.

Current	15
New	0

Cancel

Accept

The numbers #1 to #8 represents the literal values stored inside the function block. The Sel (selection) input accepts BYTE type values in the range 0...255. A value of 1 to 8 at the Sel input will select the literal represented by #1 to #8 to appear at the output. If the value at the Sel input is outside the range 1...8 then the output = 0.

Popup Parameters

- The popup is used to enter the literal values at design time. The same popup is used for BF41, FB42, FB43, and FB44.
- Execution sequence number.

Input/Output and Parameters

Type	Description	Data Type	Range
Input 1	Select/Mux Value literals	BYTE	0...255 (1...8 valid)
Output	Output signal	Depends on FBlock	BYTE, INT, UINT, FP32

Notes

This function block can be executed in Cycle and Time tasks.