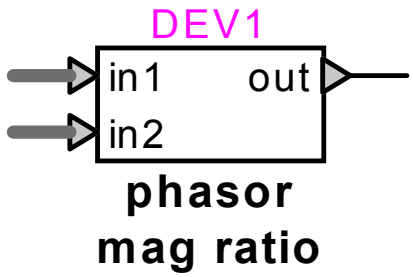
Phasor operation : phasor magnitude ratio



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1 Description

This device calculates the ratio of the magnitudes of two vectors or phasors represented by 2-signal bundles of their polar coordinates.

1.1 Pins

This device has three pins:

pin	*type*	*description*	*units*
in1	2-signal bundle	input-1 magnitude	any
		input-1 angle	rad
in2	2-signal bundle	input-2 magnitude	any
		input-2 angle	rad
out	output pin	magnitude ratio	units(in1_mag)/units(in2_mag)

1.2 Parameters

No parameters are required for this device.

1.3 Input

The input pins may be connected to any control signals.

1.4 Output

The output is the product of the magnitudes of the two input vectors.
The operation is immediate, and is calculated as follows:

$$\text{out} = \text{in1_mag} / \text{in2_mag} \qquad (1)$$