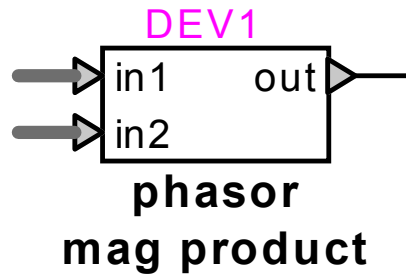


Phasor operation : phasor magnitude product



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1 Description

This device calculates the product 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:

<i>pin</i>	<i>type</i>	<i>description</i>	<i>units</i>
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 product	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:

$$\text{out} = \text{in1_mag} \cdot \text{in2_mag}$$

(1)