

i1 enters dotted terminal of coil 1. V2 is "+" at dotted terminal of coil 2. ("M" is positive)



+

 $V_1 = M \frac{di_2}{dt}$

1



i2 leaves dotted terminal of coil 2. V1 is "-" at dotted terminal of coil 1. ("M" is negative)



i1 enters dotted terminal of coil 1. V2 is "+" at dotted terminal of coil 2. ("M" is negative)



i2 leaves dotted terminal of coil 2. V1 is "-" at dotted terminal of coil 1. ("M" is positive)