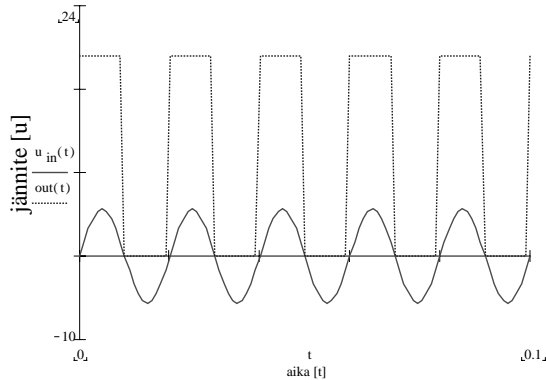


CARELAY RF400 frequency transducer measures the frequency of a small impedance input signal. The measured frequency is output as a square wave of the same frequency. The amplitude of output is equal to auxiliary voltage (14..24 VDC). See picture below. The transducer is specially designed for the measurement of an asynchronous generator when it is not connected to the grid. When connected to the grid, transducer outputs the frequency of the grid.



Technical specification

Measurement signal:

Voltage 30mV.. 500V RMS
Frequency 0.2 .. 1000 Hz

Auxiliary Voltage

14 .. 24 VDC

Output signal:

Voltage Auxiliary Voltage *
Current 0...100 mA

Output impedance

24 Ω

Input impedance

330 kΩ

Isolation of measurement

3.0 kVDC 1 min

Another voltage or frequency ranges available as special delivery

Power consumption

30 mA max
+ output current

Mechanical data

Operating temperature

0 .. 70 °C

Dimensions k x l x s

75x55x110

Enclosure, polycarbonate

IP20

Fixing

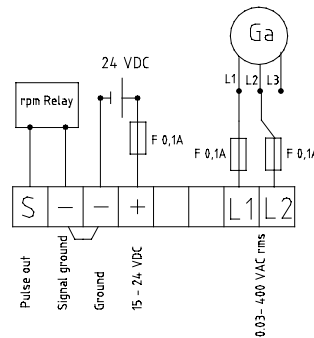
DIN-bar

Conductor size

max 4 mm²



Connection example



Attention

The device gives the correct output if it is connected to a small impedance measurement circuit such as terminals of motor, or phases of grid. While the measurement circuit is open this device measures the frequency of interfering magnetic field, normally the frequency of the grid.

