

Sequence and Vigilance controller

product information

FUNCTION & OPERATION

Sequence function:

The purpose of this function is to prevent a motor from starting up while someone may be close to the driven gear.

When the start button is pressed a siren is turned on for 10 sec.s while the start button is pressed. Then a green lamp lights up for 5 sec.s during which period the start button can be released. During this 5 sec. period the motor contactor must be engaged manually.

This contactor is fitted with a UVT coil which is energized for these 5 sec.s while the lamp is lit.

If the contactor is closed within 5 sec.s of the lamp lighting up, the UVT stays energized.

If the contactor is not closed within 5 sec.s of the lamp lighting up, the UVT is de-energised and the sequence has to start over again with the siren running for 10 sec.s.

Vigilance function:

The purpose of this function is to ensure the operator does not stray from the control panel for too long.

When the motor is running, the lamp starts blinking after 30 sec.s of starting, for a period of 5 sec.s during which the operator has to press or release (change state) a second button or foot switch in order to keep the UVT coil energized. The motor will run for another 30 sec.s before the lamp blinks again for a 5 sec. period during which the foot switch has to change state again.

If the foot switch is neither pressed nor released (change of state) during this 5 sec. period, the UVT is de-energised and the motor stops.

All timing parameters above can be reprogrammed by the factory.

Depending on how the unit is connected, either function or both can be used.

SPECIFICATION

Supply (continuously connected): 525V +15% -35% 3-phase 50 or 60 Hz
burden: capacitive, 680nF per phase

Motor Voltage sensing input:

Isolated from rest of circuitry to 2.5kV AC

24V Lamp and push-button:

Isolated from rest of circuitry to 2.5kV AC

Foot switch:

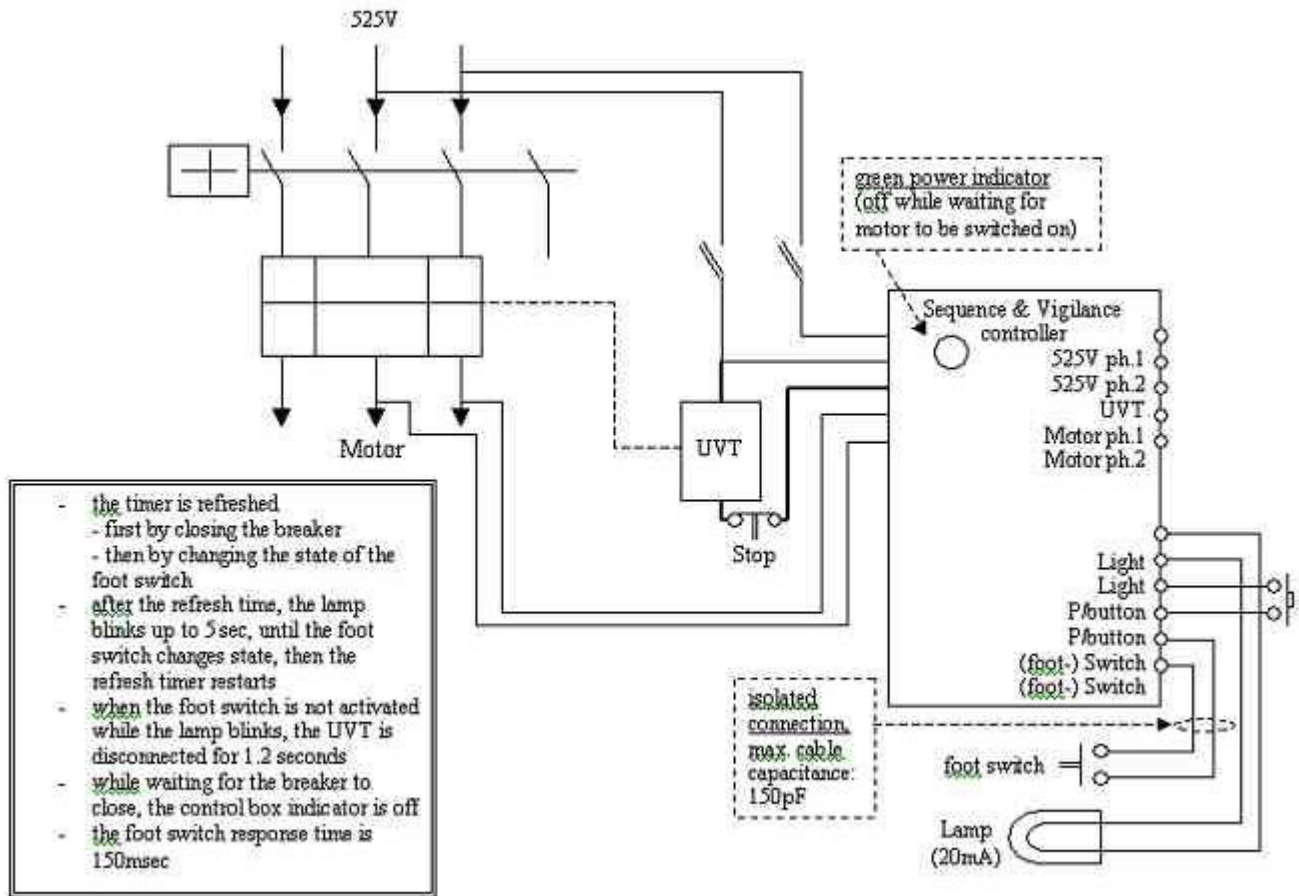
Isolated from rest of circuitry to 2.5kV AC

Operating temperature range: -5 to +70°C

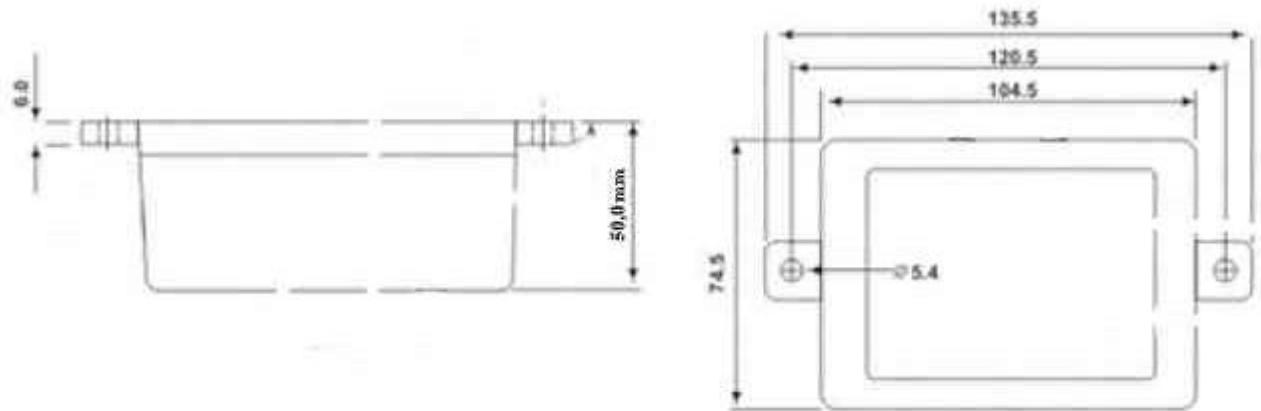
Storage temperature range: -40 to +85°C



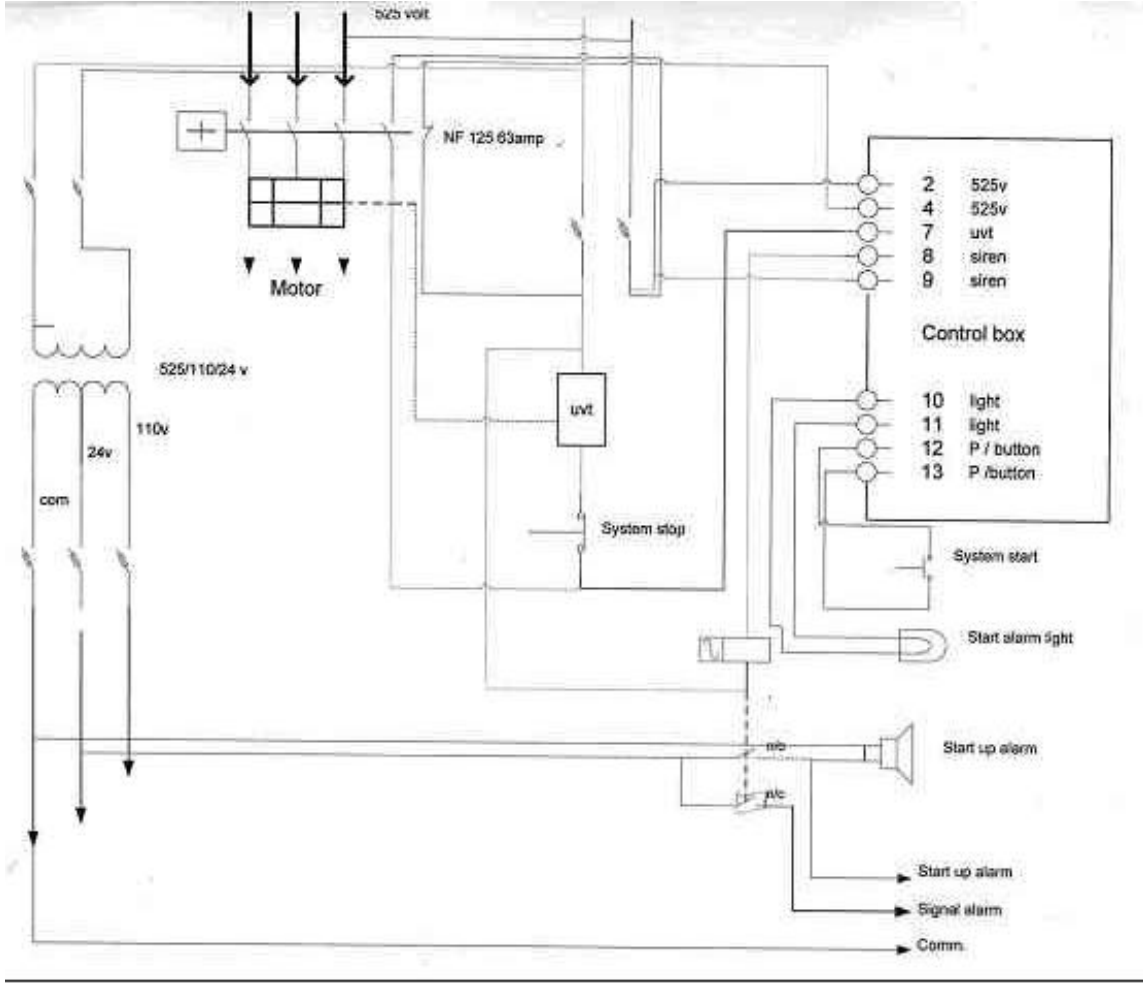
Suggested connections for both functions:



Dimensions



Suggested connections for the start sequence function only:



Suggested connections for the vigilance function only:

