

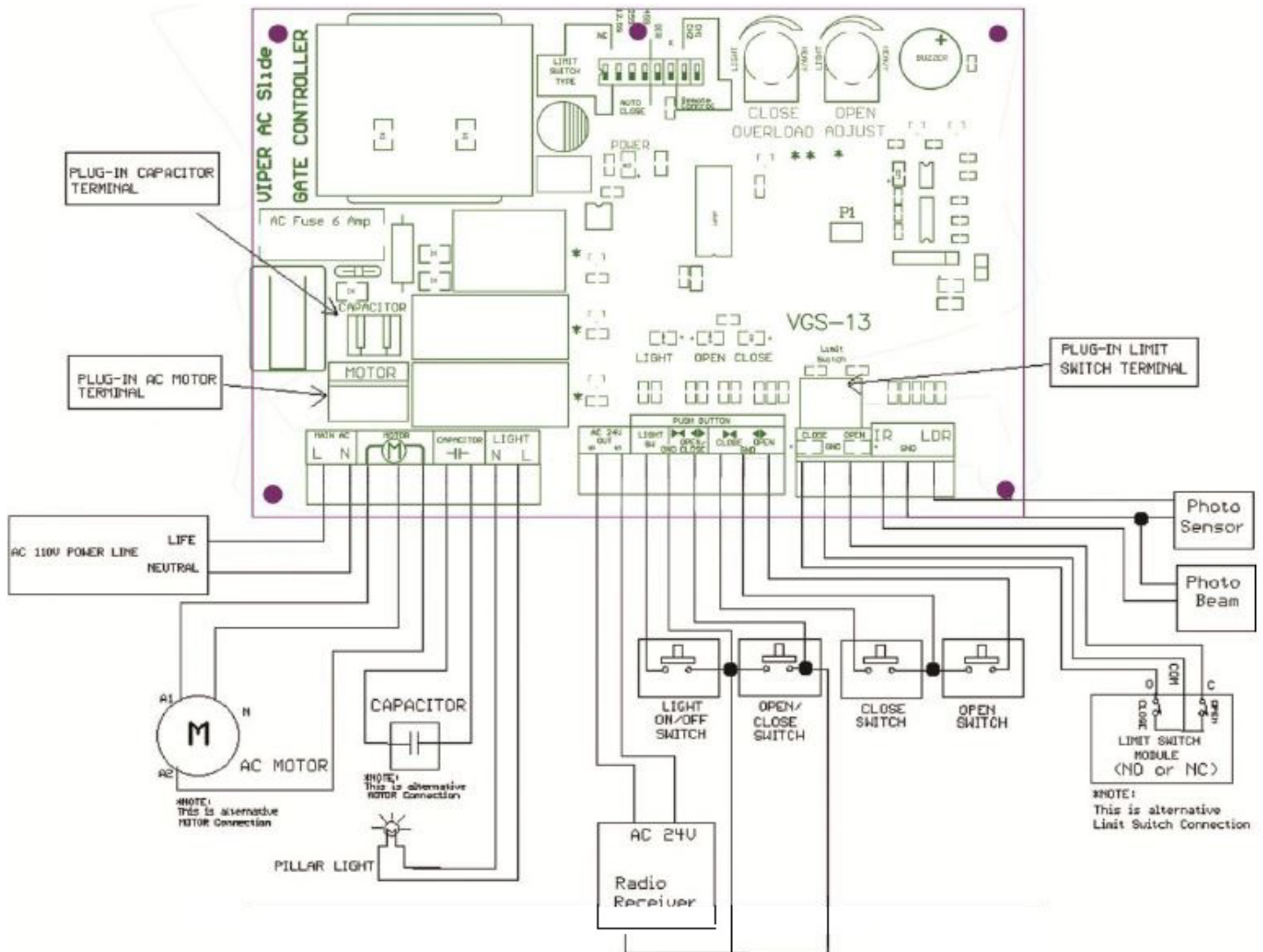
Viper AC (Ver4.0) Sliding Gate Controller – Installation Manual.

Description:

This document describes the functions and connection details for Viper AC (Ver4.0) Sliding Gate Controller.

Viper AC (Ver4.0) is a compact and full system for both residential and commercial gate operators. This intelligent AC slide gate controller uses a micro-controller of Microchip, the latest technology of the USA, as the main intelligent unit to perform the opening, closing, overload sensing and various types of control for the AC slide gate. The AC motor is switched by high-performance OMRON relays. The product is proof to be reliable to electromagnetic interference, fault triggering, RF interference by the radio devices and, most critically, the product is proof to be safe and user friendly.

Wiring Diagram:



Descriptions of Push Buttons:

<i>Push Button name</i>	<i>Function</i>
Light	Turning on or off the pillar light
Open/Close	To open, close and stop the gate in a open-> stop->close->stop sequence.
Open	To open the gate. (not allowed to stop)
Close	To close the gate. (not allowed to stop)

Descriptions of Plug-in Terminal

<i>Plug-in Terminal</i>	<i>Function</i>
Limit Switch	3-terminal plug-in for limit switch. The center pin is common, and, therefore, reverse direction of plug-in is allowed.
AC Motor	3-terminal plug-in for AC Motor. The center pin is common, and, therefore, reverse direction of plug-in is allowed.
Condenser	2-terminal plug-in for Condenser. Reverse plug-in is allowed.
Buzzer	Polarized 2-terminal plug-in for small voltage (12V)buzzer. Reverse plug-in is not allowed.
Remote Control	Polarized 6-terminal Remote Control. Reverse plug-in is not allowed.

DIP functions are as follows:

<i>DIP Position</i>	<i>Function</i>
1	Limit Switch NC/NO
2	Auto-Close 12.5 sec
3	Auto-Close 25 sec
4	Auto-Close 45 sec
5	Motor Direction
6	Reserved (not use)
7	Remote Control Ch2
8	Remote Control Ch1

Photo Sensor (LDR).

Photo Sensor or LDR is used to sense the day light. Removing this sensor means no day light is detected and any attempt to open or close the gate will force the pillar light to switch on.

Infra Red Photo Beam (IR).

This is a safety input used to detect any objects or obstacles along the movement of the gate. This is a normally-open input. The gate is not allowed to close if an active state (short circuit) of this input is detected. In the case of closing, activating this input will stop the gate and force the gate to open.

Overload VRs

There are two Variable Resistors (VR) used to set the overload sensitivity of the gate. Turning the VR anti-clock wise will set the overload sensitivity to the highest (for light gate) while turning the VR clock-wise decrease the overload sensitivity (for heavy gate).

Mechanical Specifications

Mechanical dimension : 150 x 101 mm

Electrical Specifications:

Input : 110 VAC, 50Hz

Load rating : 5A Max

Aux AC Output : 24V AC, 25 mA max

Maximum travel time per route : 90 seconds.