Control Unit Manual
FSM-1 LED

Rapid Speed
Rolling PVC Door

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Description
General Safety Information

Usage Instructions:

-No part of this document can be reproduced without the written consent of Kollias Ltd.

-This document may be updated in the framework of technical progress.

-All dimensions are in milimeters.

-Drawings are not in scale.

Symbols:

⚠ DANGER!

Symbolizes imminent danger that might result to death or serious injury.

⚠ ATTENTION!

Symbolizes imminent danger that might result to damage or destruction.

CHECK

Symbolizes that a check must be done.

⚠ DANGER!

There is serious danger if the below rules are not followed!

Guaranty

The function and safety of the control board is only guaranteed when the safety rules in this document are followed.

Kollias Ltd. bears no responsibility for any damages or injuries that might occur from incorrect handling of the product.

Kollias Ltd. bears no responsibility for any damages or injuries that might occur from using not approved spare parts and/or components.

Use

The FSM-1 control unit is exclussively designed to operate rapid speed rolling PVC doors.

Usage Group

Only trained and specialized electricians are allowed to connect, program and service the control unit. They must also:

-Be aware of the safety regulations.

-Be aware of the related eletrical regulations.

-Be trained in using and servicing of apropriate equipment.

-Be able to recognize dangers related to electricity.

Installation and connection instructions

-The system must be disconnected from electricity before any work occurs.

-Ensure that the power will not return in the middle of the works.

-All current standards and regulations must be followed.

Product Description

The FSM-1 control unit has a clear, smart and simple design and configuration.
The control unit is provided ready and configured from the factory, so that mistakes are avoided and assembly times are minimized.
FSM-1 control units do not require any time consuming configurations!

The rapid speed door has two cooling systems:
1) 24V DC, used for the cooling of the control unit.
2) 230V AC, used for the cooling of the motor and brake.
Both systems are activated simultaneously for 5 minutes each time the door is operated. Each operation of the door resets the cooling time.
Under normal conditions, the ventilators should be cleaned every two years, as the accumulation of dirt can stop their operation.

The ventilation ports must never be covered!

ATTENTION!

1) Control Unit Ventilation 2) Power Group Ventilation

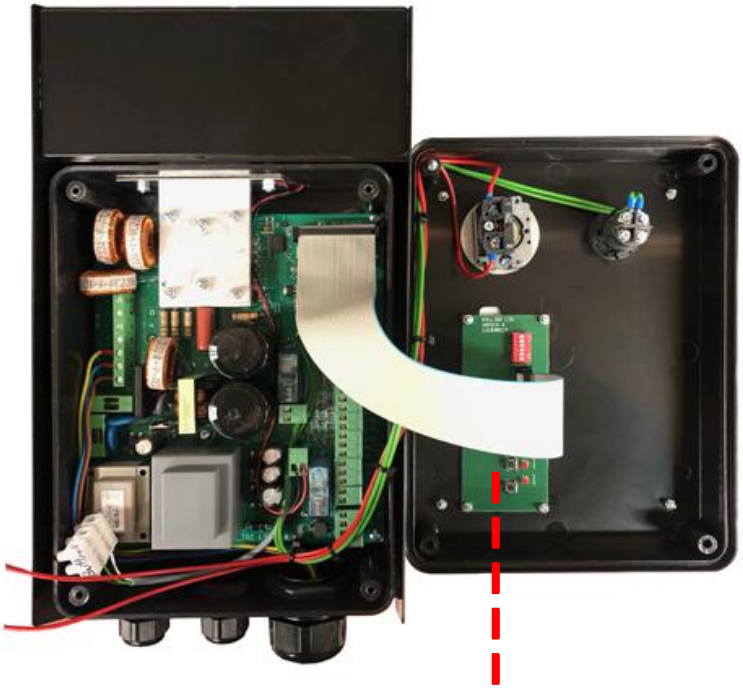
If a ventilator stops working, the door will continue operating until the power group reached the temperature of 100 °C. If the temperature goes over 100°C, the door will only be able to close.

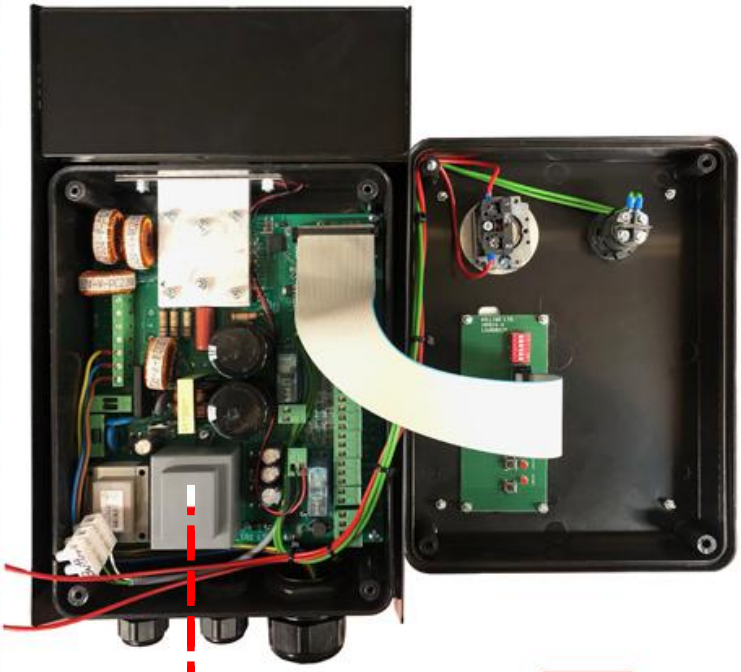
The user can extract important data regarding the function of the rapid speed door through a touch screen which is sold seperately (optional equipment). The user can also intervene in the factory settings, and adjust them closer to his/hers needs. The touch screen can be installed to the control unit at any time, replacing the LED indications. To do so, the control unit must be disconnected from the power supply and its cover replaced by the one that is equipped with the touch screen. When the power is turned backed on, the control unit will recognize the touch screen and configuration will be loaded automatically.

The test subject in the above picture has been repeatedly tested in rough conditions for over a year without any dysfunctions. In that time it concluded over 1.500.000 operation cycles and it continues to function properly to this day.

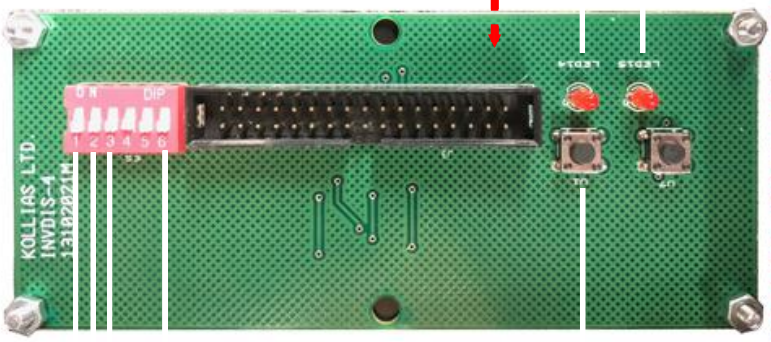
Control Unit
Overview

Control Unit



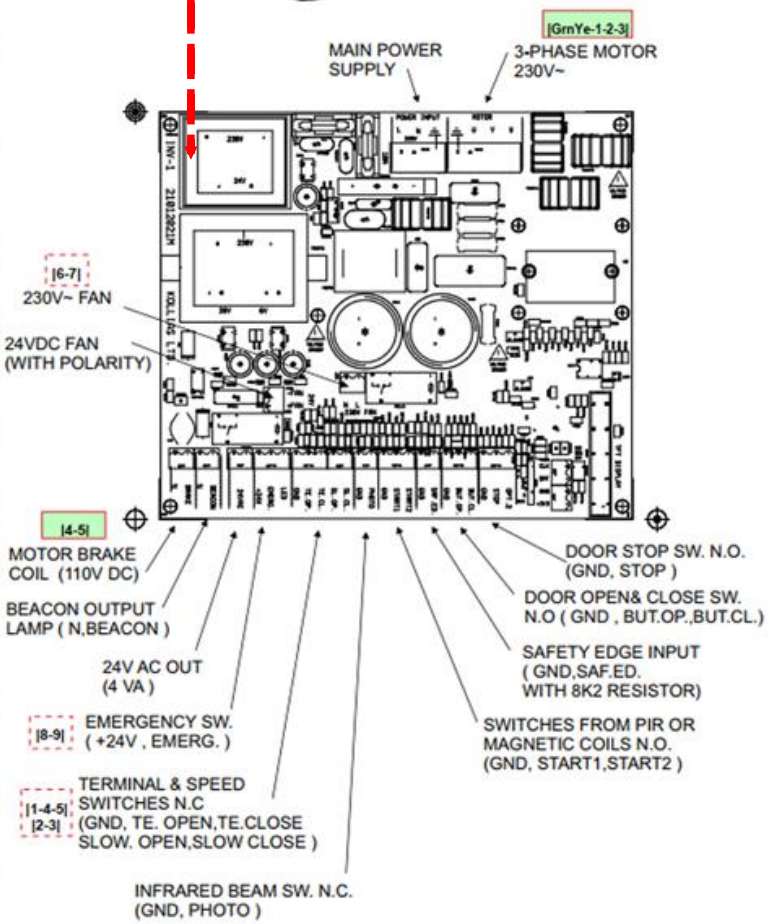


INVDIS-4



Button Enable
Disable Safety Edge
Disable Photocell
Disable Autoclose

Set Autoclose Time
or
Set Operating Time
(Every LED 14 blink adds 5 seconds. The door must be close)



Manual Override Instructions

Picture1

Picture 2

1.Open the crank input by moving the red switch upwards, as seen in Picture 1.
2.Place the crank in the input, and rotate smoothly until it adjusts (Picture 2).
3.Release the brake by pushing the red lever in the direction seen in Picture 3, and hold it there for as long as the manual override lasts.
4.Use the crank.
5.Release the brake lever.
6.Remove the crank and move the switch to its initial position.

Picture3