SAM ELECTRONICS CORPORATION

SEC LIFT WORLD

Elevator Overload Controller SAM SOL01 (Rope Type & Platform Type)
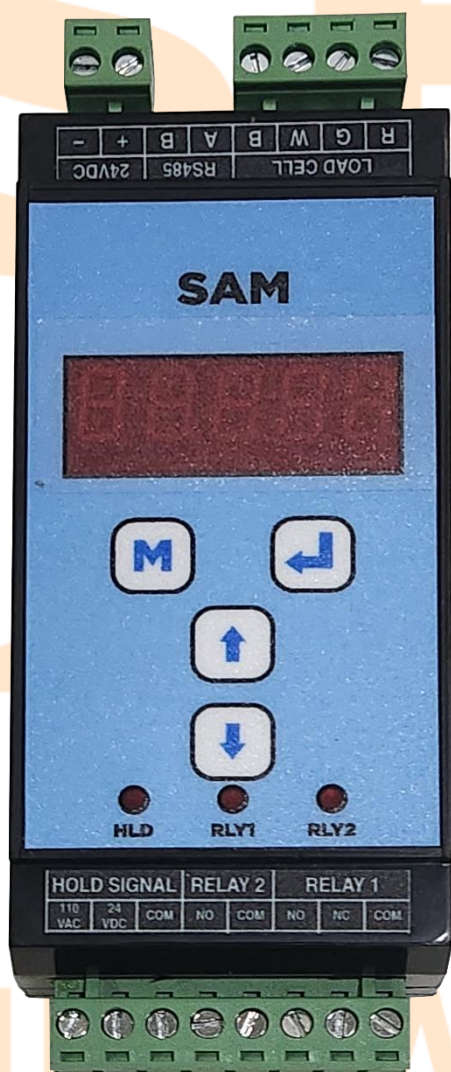
Specifications

- Input Voltage   : 9VDC to 30VDC, 1A max.
- Load Cell Type   : 4 Wire Bridge
- Relay Outputs   : R1 (NO, NC, COM), R2 (NO, COM)
- Contact Ratings   : 1A @120VAC, 1A @24VDC
- Display   : 5 Digit 7 Segment
- Dimensions   : 40 x 33 x 110mm

Features

- Modular design, DIN rail mount
- Reverse polarity protection at supply
- Easy one-time calibration
- Dual relay Outputs with 3 contacts
- Multiple options for overload detect signal
- Internal buzzer for overload alarm
- **Voice Announcement System** compaitble

- Dynamic weight display on LCD
- In Platform type, Cabin Weight is not to be considered. For Passenger Lift, upto 8 persons capacity & 2 live sensors to be used. For Goods/Hospital Lift, 4 live sensors to be used. For Car Lift, 6 live sensors to be used.

Connection:

Hold signal should be of **12V/24V DC**, then connect signal to **DC & COM**.

Platform Type Load Cell

Rope Type Load Cell

Contact 9322345917 / 8591064837 for more information
Send us an email on sectiwari@gmail.com / info@samelectronics.in

Make sure that you are on **Ground Floor** while setting the controller

When the controller is turned **ON** it will display a **0** digit on the screen.

Press & hold [M] button for 2 seconds then the screen will show the following screen.

This means the controller is in **Auto** mode. For better control and accuracy we will change to **Manual** mode.
To do this, press [M] button.

This screen means that the controller is now in Manual mode.
Press [↵] key.

This screen means that the load value is currently empty and we need to set it as per our requirements. Press [↵] key.

Now we need to step inside the cabin for the load cell to calibrate the weight load. If the total passenger capacity is **6** then half of it, i.e. **3 person need to enter the cabin** and their **total approximate weight** needs to be entered.

For example, 3 person total weight is **210KG** then enter **210** using the Arrow keys. Press [↵] once you have entered the weight.

Now enter the overload value as per your requirement.
Press [↵] key.

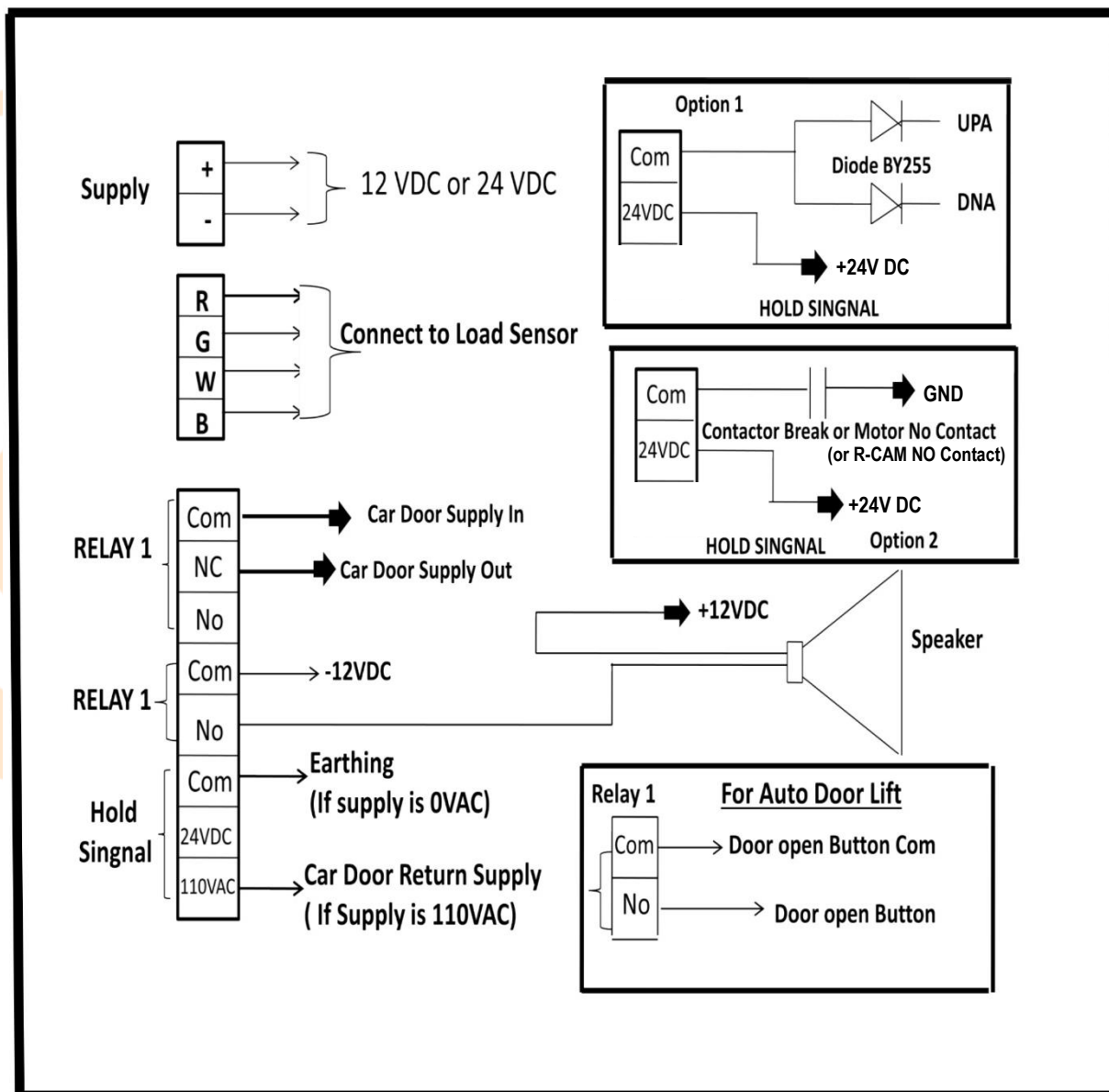The controller has been configured and calibrated. The next step will set the buzzer. You can skip it.

This means that the buzzer is ON. Press Arrow Keys to turn it OFF by setting it to 0. Or you can skip by pressing [↵] key.

Now your Overload Controller is all set and ready to use.

Connection Diagram for Overload Sensor

Supply
+
-
} 12 VDC or 24 VDC

R
G
W
B
} Connect to Load Sensor

Option 1
Com
24VDC
Diode BY255
UPA
DNA
+24V DC
HOLD SINGNAL

Com
24VDC
GND
Contactor Break or Motor No Contact
(or R-CAM NO Contact)
+24V DC
HOLD SINGNAL   Option 2

RELAY 1
Com → Car Door Supply In
NC → Car Door Supply Out
No

RELAY 1
Com → -12VDC
No

+12VDC

Speaker

Hold Singnal
Com → Earthing (If supply is 0VAC)
24VDC
110VAC → Car Door Return Supply (If Supply is 110VAC)

Relay 1   **For Auto Door Lift**
Com → Door open Button Com
No → Door open Button