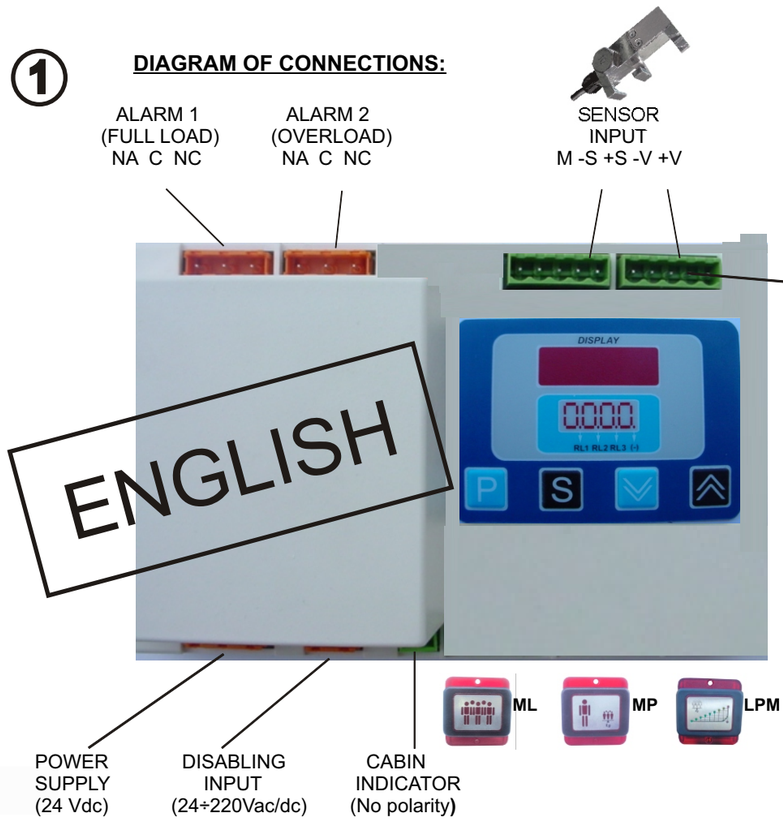
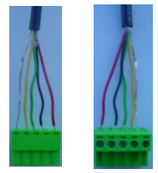
MWR-1 INSTALLATION PROCEDURE: (3 STEPS)

MICELECT Microelectrónica y Sensores

① DIAGRAM OF CONNECTIONS:



SENSOR CONNECTING CODE:
M.....MESH
- S.....- Signal..YELLOW.
+S.....+ Signal...GREEN.
- V.....- Vdc.....BLACK.
+V.....+ Vdc.....RED.



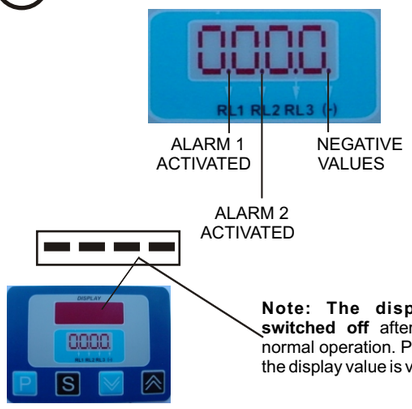
CONNECTING SENSOR
(Up and Down) Views

ALARM CONNECTING CODE:

NA.....NO=Normally open.
C.....C=Common.
NC.....NC=Normally closed.

Relays electrical ratings:
250Vdc / 3 A

② KEYS AND FIGURES:



Note: The display remains switched off after 5 minutes of normal operation. Pressing any key the display value is visualised again.

PROGRAMMING KEY "P"
This key allows to go through the different menus in order to perform the settings and to introduce the lift parameters. Once introduced, by pressing the "P" key parameters are saved in eeprom (a non volatile memory to save data in case of power failure.)

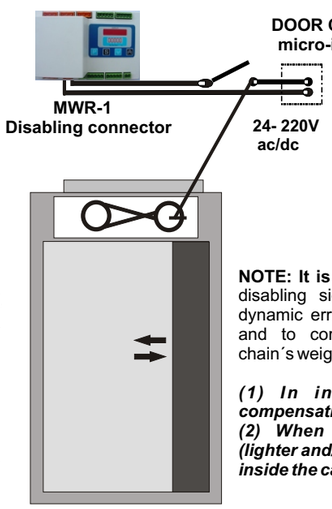
EXIT KEY "S"
It allows to leave the menus without saving data in eeprom. In the alarm menus, we go from one alarm to another without going through their parameters.

DOWN KEY "▼"
This key enables the user to decrease the parameter values in each menu. It has two speeds; one by one or, if pressed on, twenty by twenty.

UP KEY "▲"
This key enables the user to increase the parameter values in each menu. It has two speeds; one by one or, if pressed on, twenty by twenty.

③ DISABLING OR BLOCKING VOLTAGE:

The disabling signal range is **(24-220 V ac/dc);**



Disabling signal with Door Contact:

Closed contact when door begins to close and open contact when door finishes to open.

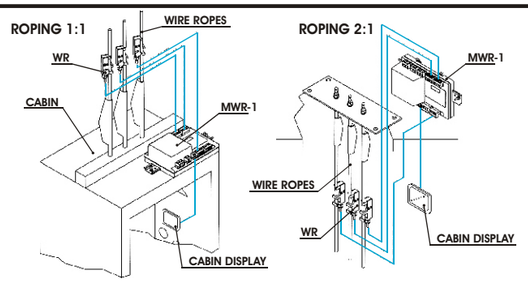
NOTE: It is compulsory to use the disabling signal in order to avoid dynamic errors in the measurement and to correct the compensating chain´s weight in these two cases:

(1) In installations with a compensating chain.
(2) When any cabin indicator (lighter and/or sounder) is installed inside the cabin.

NOTE: The MWR-1 must continuously receive a blocking signal during all the time the lift is travelling, from the moment the doors are closing until the cabin gets on floor and the lift opens doors again. **NOTE: Continuously. (Voltage 24-220Vac/dc)**

The display value will keep freezed after receiving this signal.

Connect the disabling or blocking wlres using for example, **a door contact micro fed with voltage once the door begins to close.**



CONNECTIONS:
We must connect all the WR sensors in parallel, joining the wires of the same colour, and following the colour code.

MWR-1 PROGRAMMING PROCEDURE: (7 STEPS)

Press the "P" key during 3 seconds to begin the programming procedure.

① MEASURING UNITS: "KG" / "LB"

"KG" = Measurement in kilograms.
"LB" = Measurement in pounds.

② ALARM VALUES: "RELY"

The electronic control unit has two alarms.

Alarm 2 (RL2) : It is always assigned to **OVERLOAD. 100% Total Load.**
Alarm 1 (RL1) : It can be assigned to **FULL LOAD. 80% Total Load.**

③ ZERO CALIBRATION: "TARE"

Make the zero setting with empty cabin selecting "YES". Pressing the "P" key the equipment begins to flicker for 15 seconds to permit the installer to leave the cabin totally empty.

④ SENSOR CONFIGURATION: "VR"

**** AUTO (Automatic).**
DIAMETER: dv. the diameter in millimetres of the wire ropes has to be introduced from **8 to 16 and 20 mm.**
UNIT: nv. the number of **WR** sensors installed on the wire ropes must be introduced, from **1** to **8.**(every wire rope must have one sensor installed.)

**** PESO: (LOAD).**
Using this configuration a known weight has to be used to set up the sensor. Place a known weight, which must be - at least- **half the useful load.** Introduce by means of the keys the weight in Kg. Placed inside the cabin and perform the weight setting.

⑤ TYPE OF ELEVATOR:

Select if the elevator is a **1:1** direct traction or a pulley system **2:1**, **3:1** or **4:1.**

⑥ CABIN INDICATOR: "INDI"

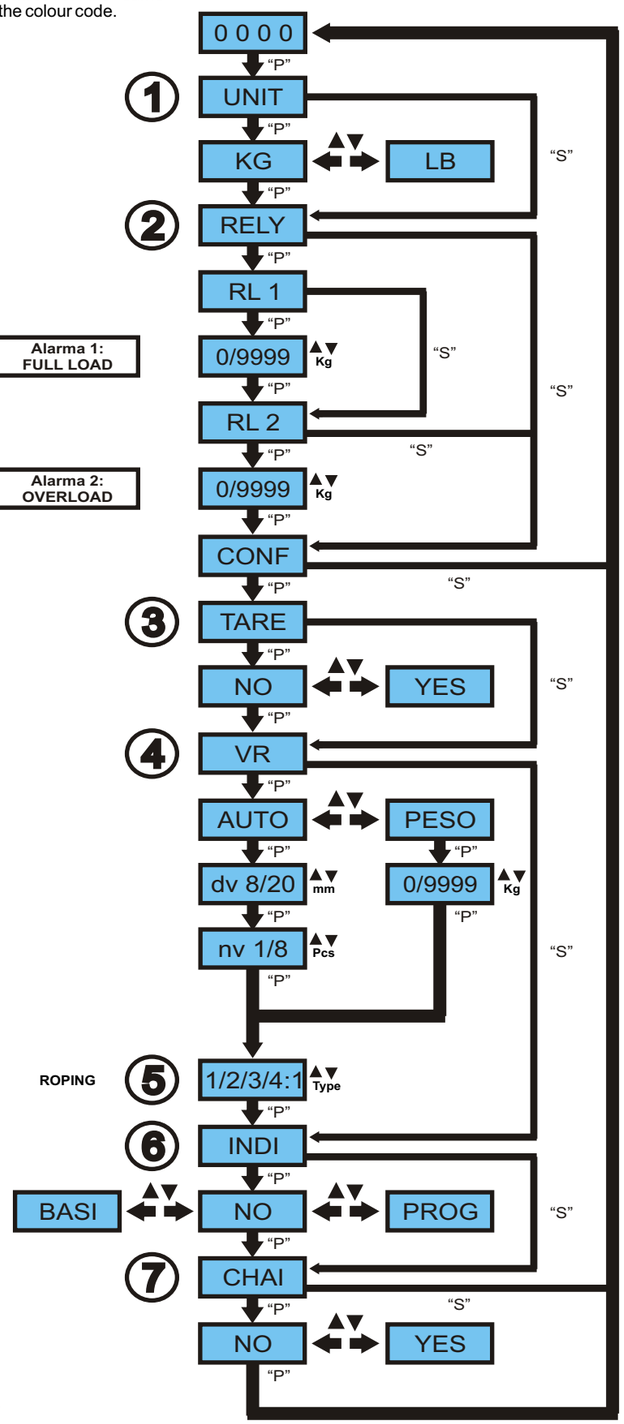
"NO" = No indicator installed inside the cabin.
"PROG"= MICELECT progressive models (MP or LPM).
"BASI"= MICELECT basic indicator ML model or any lighter-sounder system powered by 24Vdc.

⑦ COMPENSATING CHAIN WEIGHT: "CHAI"

If our installation has a compensating chain we must select **"YES".**
If our installation has not got a compensating chain we must select **"NO".**

NOTE: If we select **"YES"** we must be sure that the disabling connector is connected following the diagram of the point 3 of the installation procedure.
Closed contact when door begins to close and open contact when door finishes to open.

Note: Contact with a voltage range from 24 to 220 Vac/dc, during all the time lift is travelling. Note: Continuously.



ERROR CODES:

ERR1.... No saved Data.
ERR2... Overload.
ERR3... Power Supply Low.
ERR4... Negative Known weight.
ERR5... Known weight Low/High.

SOLUTIONS:

ERR1.... Make again the settings.
ERR2.... Weight > 9999 Kg.
ERR3... Check the Power Supply.
ERR4.... Some possible "hooks"/ wrong wiring sensor. Check sensor colour code.
ERR5.... See part 3. Programming procedure "PESO" (Correct useful load).

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