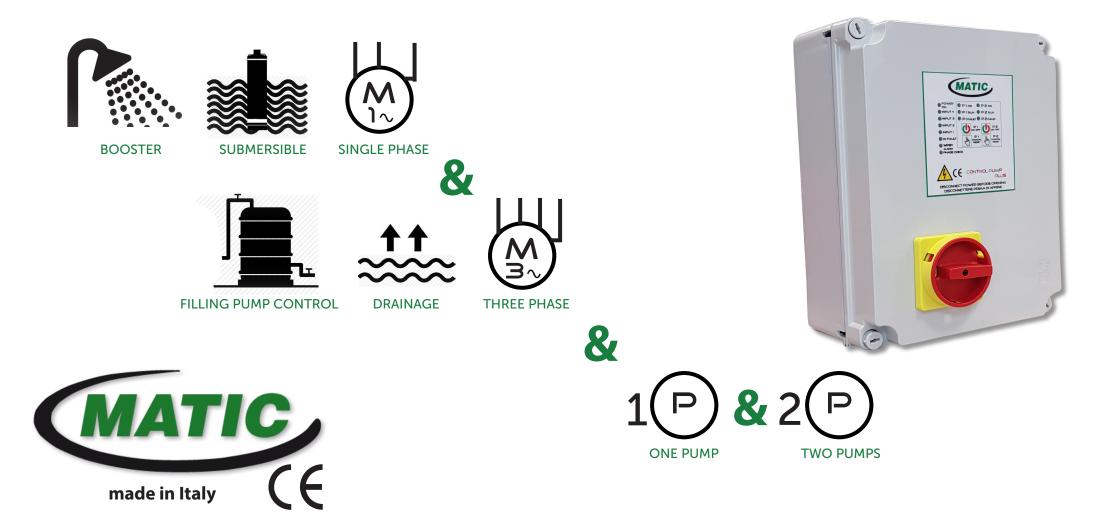
# **CONTROL PUMP PLUS** 1 & 2 PUMPS SINGLE PHASE & THREEPHASE

Settable Electronic Panel for the direct control of 1 & 2 Pumps SINGLE & THREE PHASE

**DRAINAGE - BOOSTER or FILLING TANK** 



To Install According CEE eI . n° 24. I  $\triangle$  n = 30 m Automatic Cut Out Is Required

In any event all local and/or current legislation must be observed at all times.

Install the equipment far from heat sources and in a dry and sheltered location

The installation of a safety device is recommended to protect the panel power line in compliance with current electrical standards.

The electrical panel must be connected by a qualified electrician in observance of the relevant electrical standards.

All installation and/or maintenance operations must be performed by a specialized technician who is fully aware of the relevant current safety standards.

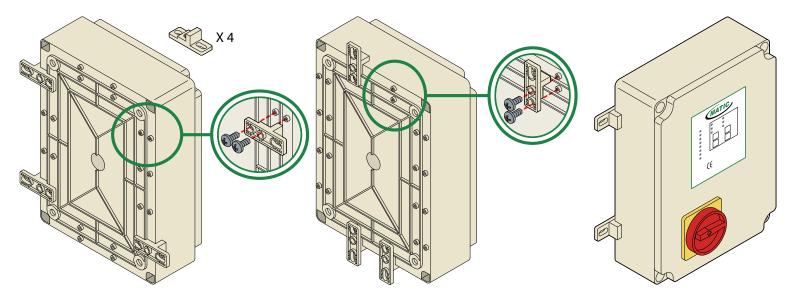
Ensure the installation is connected to an efficient earthing system.

The power line must be protected by a residual current circuit breaker.

Keep connection cables as short as possible, preventing any twisting of cables which may be harmful due to inductive effects on the electronic equipment.

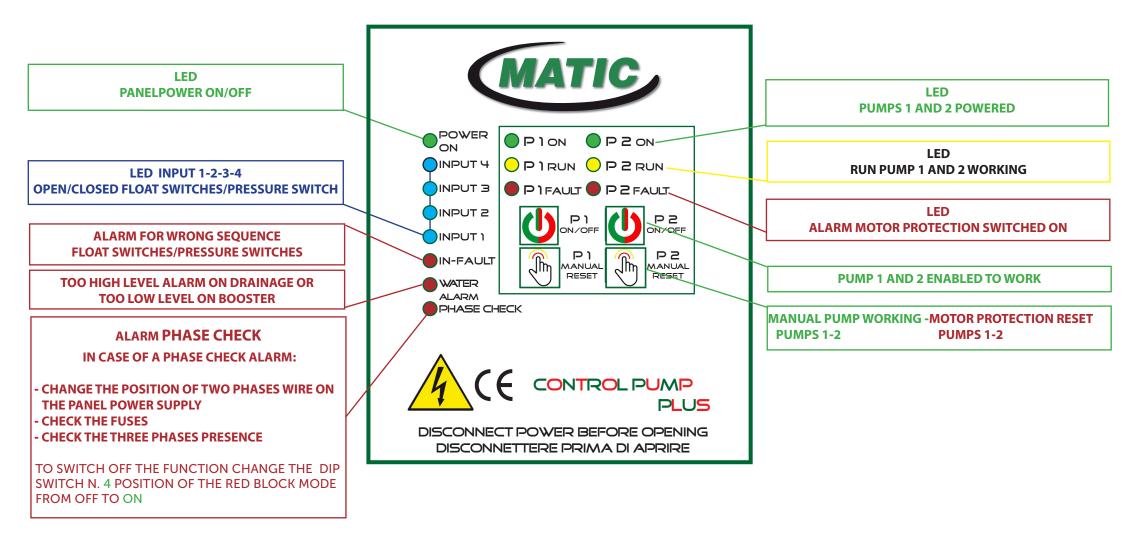
All wires used in the cabling must be suitably sized to withstand the load to be powered.

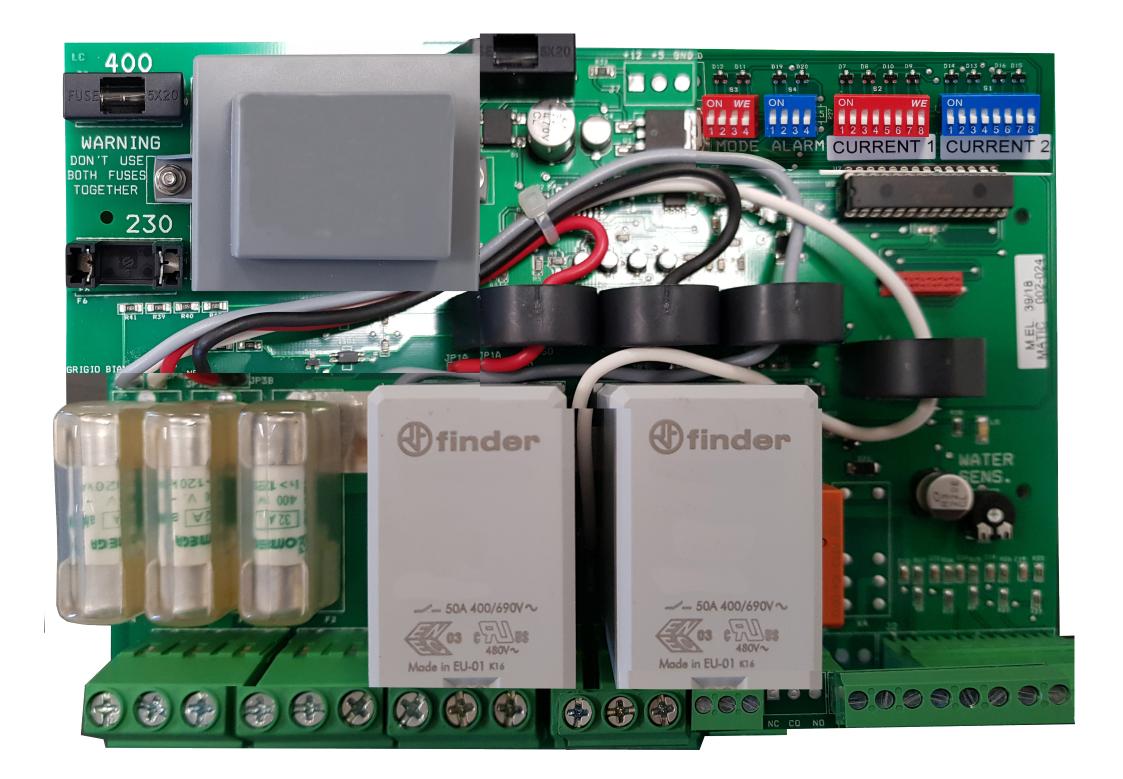
The electrical panel is designed for wall-mounting by means of the brackets supplied.



Н	W L	
	mm	
305	224	127
BRACKETS 20 mm		

## **CONTROL PANEL GENERAL VIEW**





#### 400V a.c. 3 PHASE SUPPLY - TWIN PUMPS - MAX 5,5 kW circa MAX 15 AMPERE

Supplied With The Control Panel Plus Are Cable Links To Go From The Isolator Switch To The Control Board



After The Connection Please Follow The Next Steps On The Following Pages For 400V A.c. Supply, Twin Pump Set Up

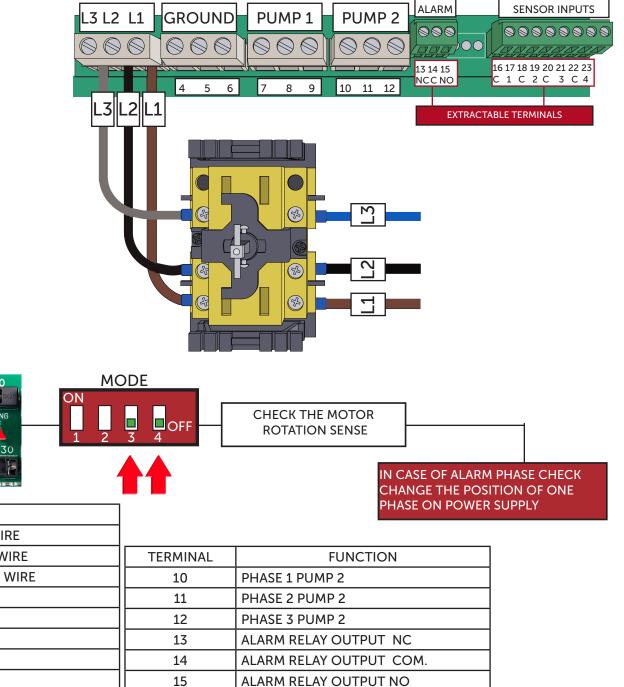
GROUND

GROUND

PHASE 1 PUMP 1

PHASE 2 PUMP 1

PHASE 3 PUMP 1



16-17-18-19-20-21 SENSOR CONNECTION

**2 PUMPS THREE PHASE** 400V A.C.

**TERMINAL** 

L3 12

L1

4

5

6

7

8

9

**FUSE POSITION ON 400 RED BLOCK MODE** 

**DIP SWITCH 4 OFF POSITION DIP SWITCH 3 OFF POSITION** 

WARNING

400

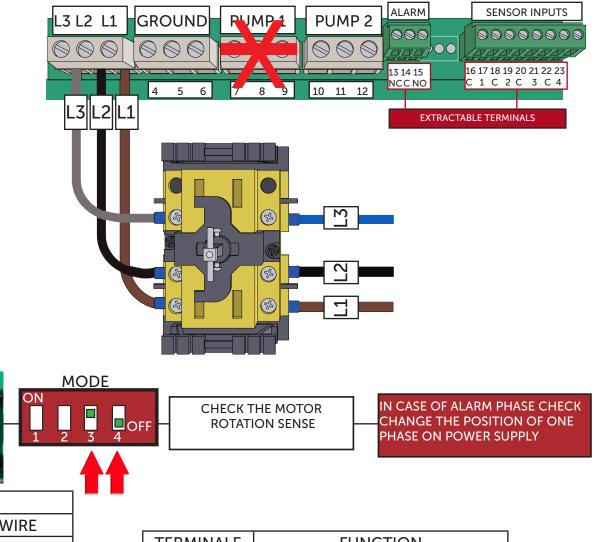
		CHANGE IF
FUNCTION		PHASE ON F
L3 PANEL POWER SUPPLY THREE PHASE GREY WIRE		
L2 PANEL POWER SUPPLY THREE PHASE BLACK WIRE	TERMINAL	FUNCTION
L1 PANEL POWER SUPPLY THREE PHASE BROWN WIRE	10	PHASE 1 PUMP 2
GROUND	11	PHASE 2 PUMP 2
CROUND	10	

## 400V a.c. 3 PHASE SUPPLY - SINGLE PUMP - MAX 5,5 kW circa MAX 15 AMPERE

Supplied With The Control Panel Plus Are Cable Links To Go From The Isolator Switch To The Control Board

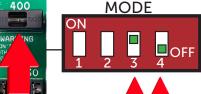


After The Connection Please Follow The Next Steps On The Following Pages For 400V A.c. Supply, Single Pump Set Up



**1 PUMP THREE PHASE** 400V C.A.

FUSE POSITION ON 400 RED BLOCK MODE **DIP SWITCH 4 OFF POSITION DIP SWITCH 3 ON POSITION** 



TERMINAL	FUNCTION
L3	L3 PANEL POWER SUPPLY THREE PHASE GREY WIRE
L2	L2 PANEL POWER SUPPLY THREE PHASE BLACK WIRE
L1	L1 PANEL POWER SUPPLY THREE PHASE BROWN WIRE
4	GROUND
5	GROUND
6	GROUND
7	NOT CONNECTED
8	NOT CONNECTED
9	NOT CONNECTED
9	NOT CONNECTED

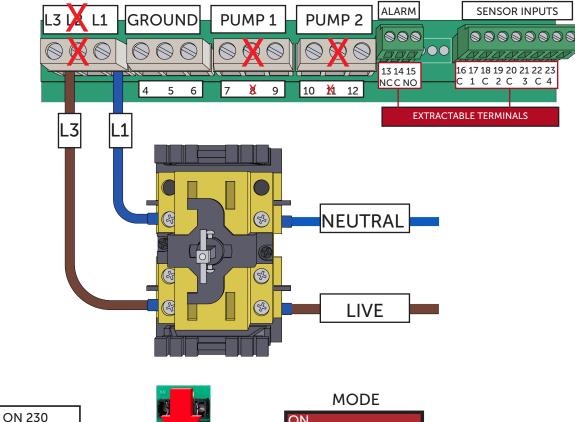
TERMINALE	FUNCTION		
10	PHASE 1 PUMP 2		
11	PHASE 2 PUMP 2		
12	PHASE 3 PUMP 2		
13	ALARM RELAY OUTPUT NC		
14	ALARM RELAY OUTPUT COM.		
15	ALARM RELAY OUTPUT NO		
16-17-18-19-20-21 SENSOR CONNECTION			

## 230V a.c. SINGLE PHASE SUPPLY - TWIN PUMPS - MAX 1,5 kW circa. MAX 15 AMPERES EACH ONE

Supplied With The Control Panel Plus Are Cable Links To Go From The Isolator Switch To The Control Board

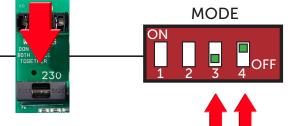


After The Connection Please Follow The Next Steps On The Following Pages For 230V A.c. Supply, Twin Pump Set Up



	FUSE POSITION ON 230	
	2 PUMP SINGLE PHASE 230V A.C.	RED BLOCK MODE
		DIP SWITCH 4 ON POSITION
		DIP SWITCH 3 OFF POSITION

TERMINAL	FUNCTION
L3	L3 PANEL POWER SINGLE PHASE LIVE BROWN WIRE
2	L2 NOT CONNECTED
L3	L1 PANEL POWER SINGLE NEUTRAL BLUE WIRE
4	GROUND
5	GROUND
6	GROUND
7	PHASE PUMP 1
8	NOT CONNECTED
9	NEUTRAL PUMP 1



TERMINAL	FUNCTION	
10	PHASE PUMP 2	
11	NOT CONNECTED	
12	NEUTRAL PUMP 2	
13	ALARM RELAY OUTPUT NC	
14	ALARM RELAY OUTPUT COM.	
15	ALARM RELAY OUTPUT NO	
16-17-18-19-20-21 SENSOR CONNECTION		

## 230V a.c. SINGLE PHASE SUPPLY - SINGLE PUMP - MAX 1,5 kW circa. MAX 15 AMPERES

Supplied With The Control Panel Plus Are Cable Links To Go From The Isolator Switch To The Control Board

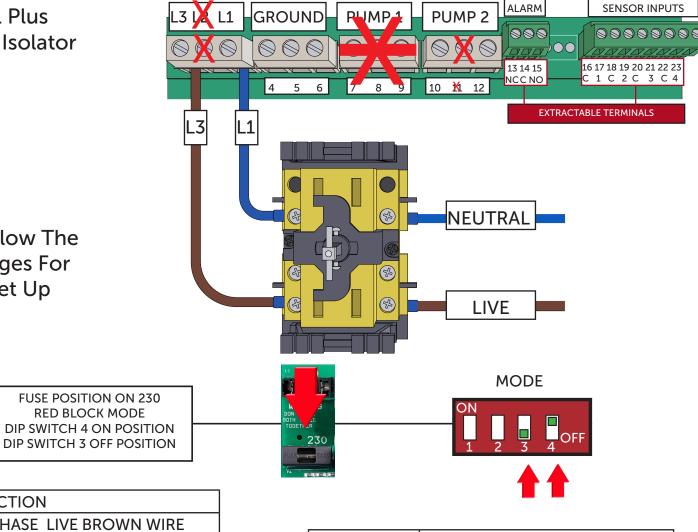


1 PUMP

SINGLE PHASE

230V A.C.

After The Connection Please Follow The Next Steps On The Following Pages For 230V A.c. Supply, Single Pump Set Up



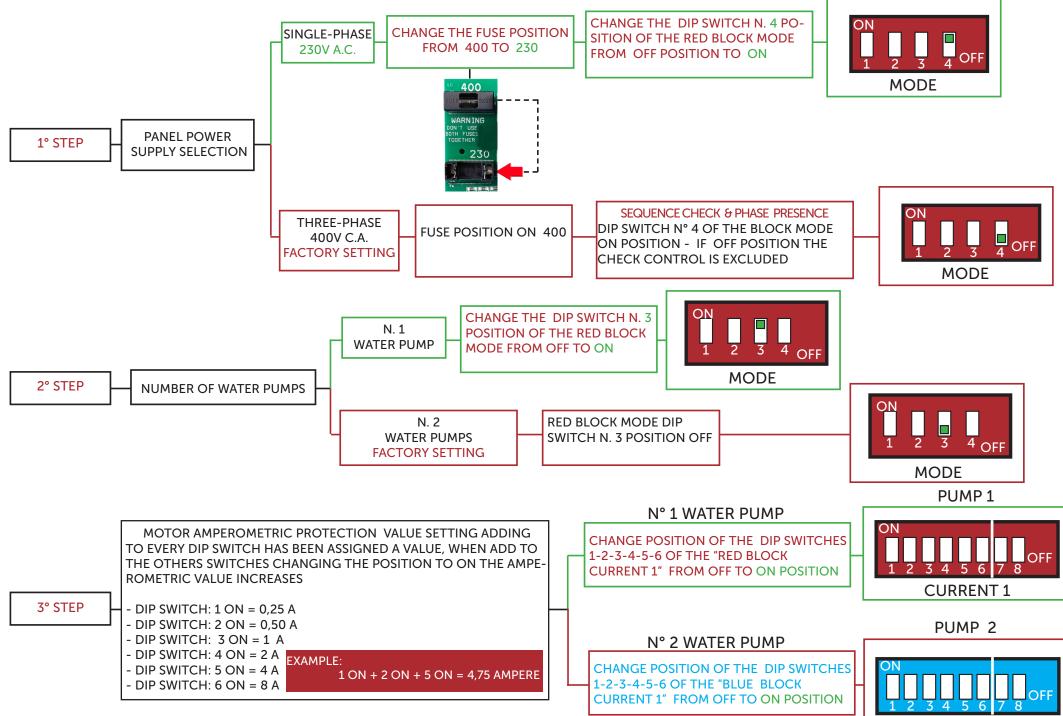
TERMINAL	FUNCTION
L3	L3 PANEL POWER SINGLE PHASE LIVE BROWN WIRE
2	L2 NOT CONNECTED
L1	L1 PANEL POWER SINGLE NEUTRAL BLUE WIRE
4	GROUND
5	GROUND
6	GROUND
7	NOT CONNECTED
8	NOT CONNECTED
9	NOT CONNECTED

**FUSE POSITION ON 230** 

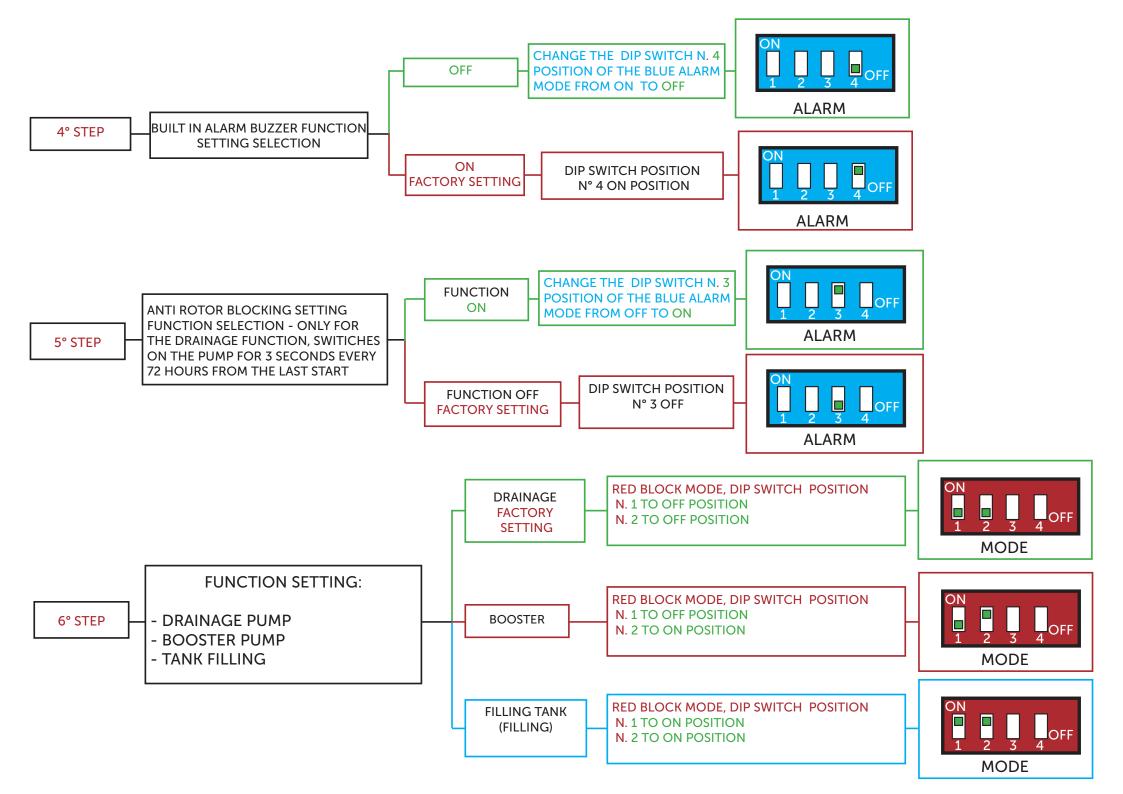
**RED BLOCK MODE** 

TERMINAL	FUNCTION	
10	PHASE PUMP 2	
11	NOT CONNECTED	
12	PHASE PUMP 2	
13	ALARM RELAY OUTPUT NC	
14	ALARM RELAY OUTPUT COM.	
15	RALARM RELAY OUTPUT NO	
16-17-18-19-20-21 SENSOR CONNECTION		

## POWER OFF THE PANEL BEFORE TO SET THE FUNCTIONS

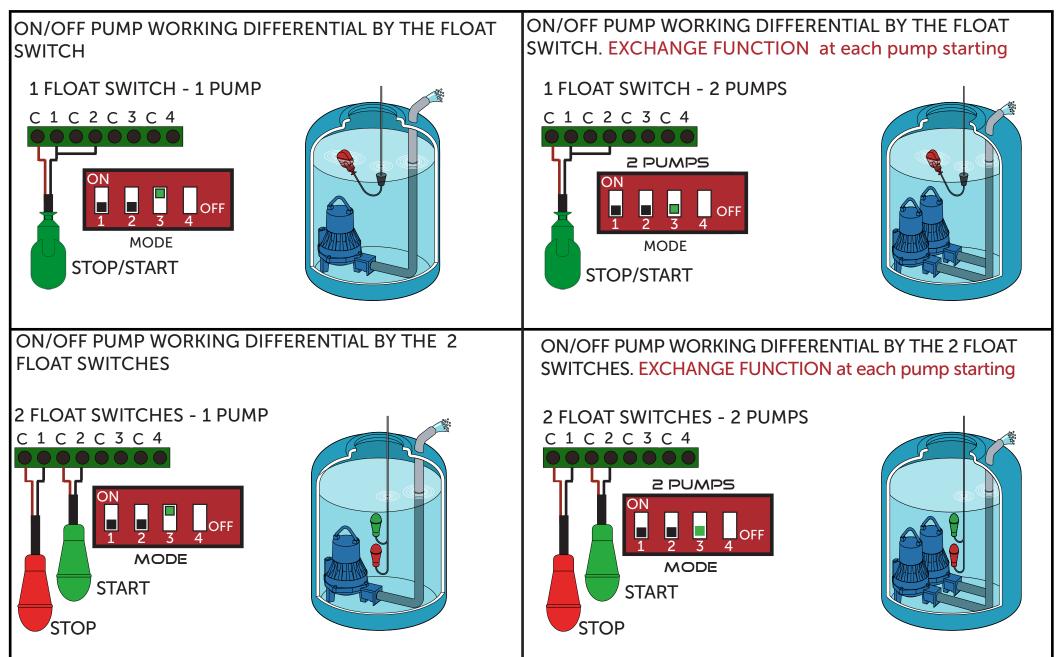


**CURRENT 2** 

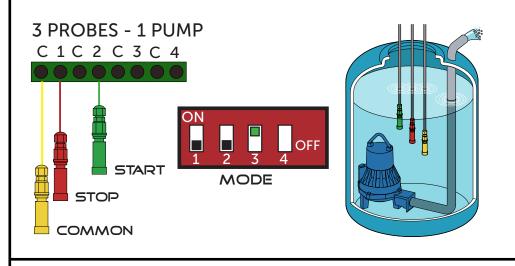


## DRAINAGE (MODE 1 OFF, 2 OFF)

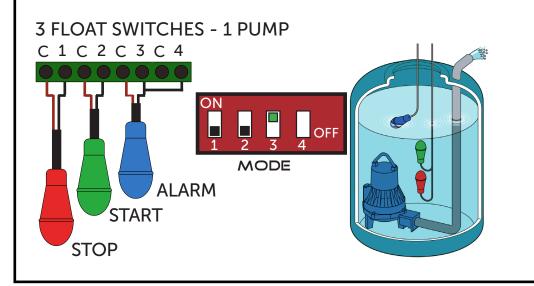
## USE THE FLOAT SWITCH CONTACT CLOSED ON UP POSITION AND OPENED ON DOWN POSITION



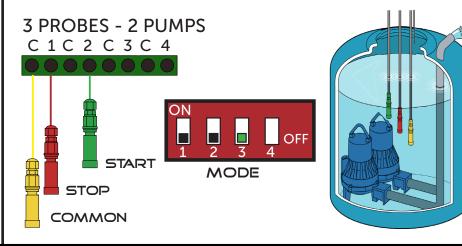
ON/OFF DIFFERENTIAL PUMP WORKING BY THE DISTANCE BETWEEN THE START PROBE AND THE STOP PROBE. COMMON PROBE CONNECTION IS OBBLIGATORY



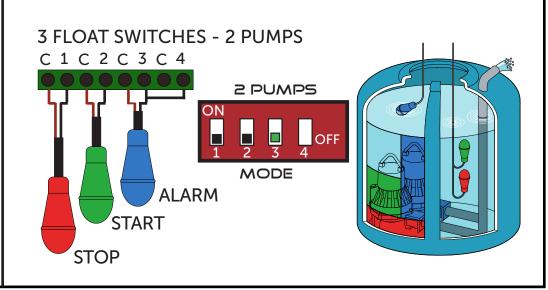
START/STOP + HIGH LEVEL ALARM switches ON the inner BUZZER (Excludible) + relay for the remote Alarm + Red light on the panel

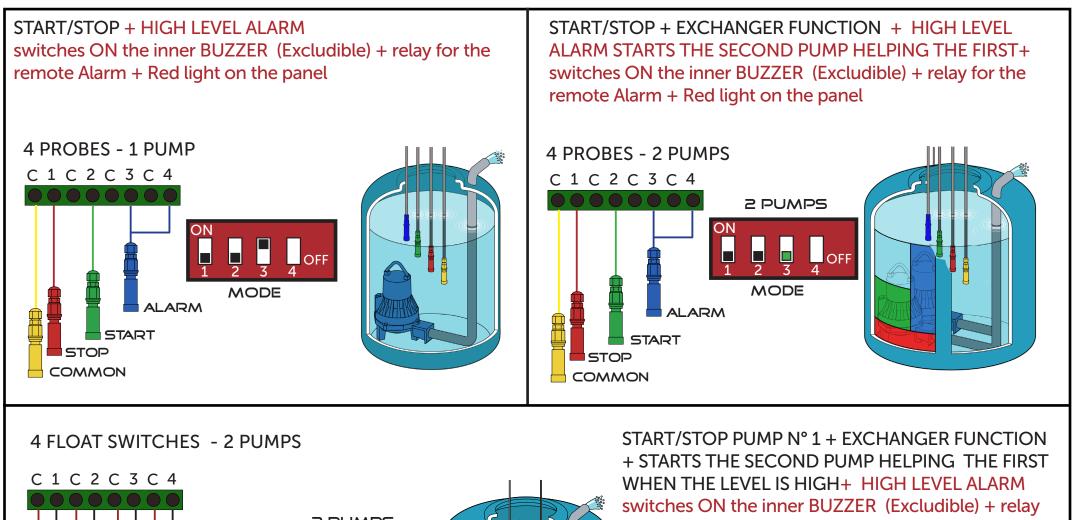


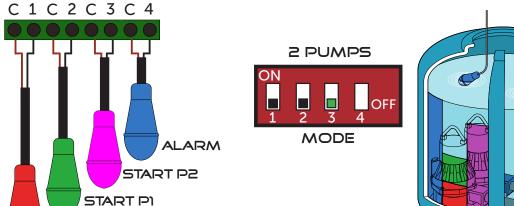
ON/OFF DIFFERENTIAL PUMP WORKING BY THE DISTANCE BETWEEN THE START PROBE AND THE STOP PROBE. COMMON PROBE CONNECTION IS OBBLIGATORY EXCHANGE FUNCTION at each pump starting



START/STOP + EXCHANGER FUNCTION AT EACH START + HIGH LEVEL ALARM+ switches ON the inner BUZZER (Excludible) + relay for the remote Alarm + Red light on the panel

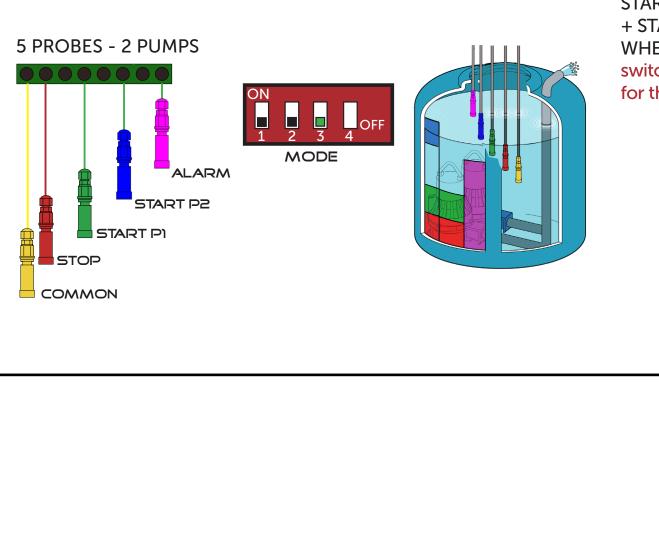






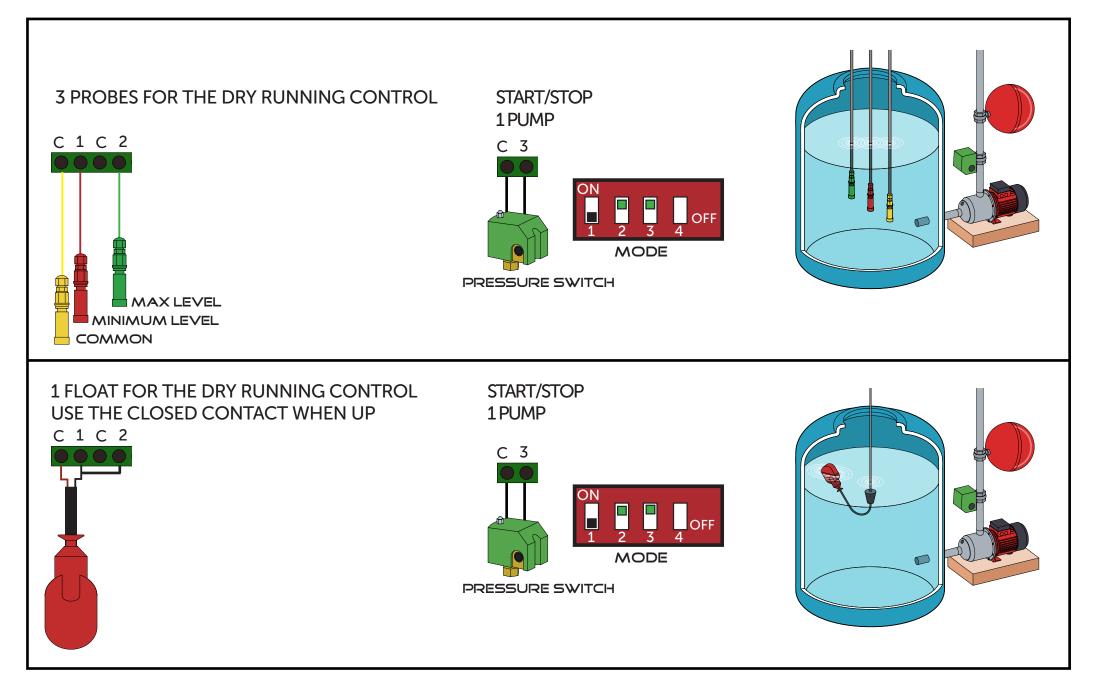
STOP

for the remote Alarm + Red light on the panel

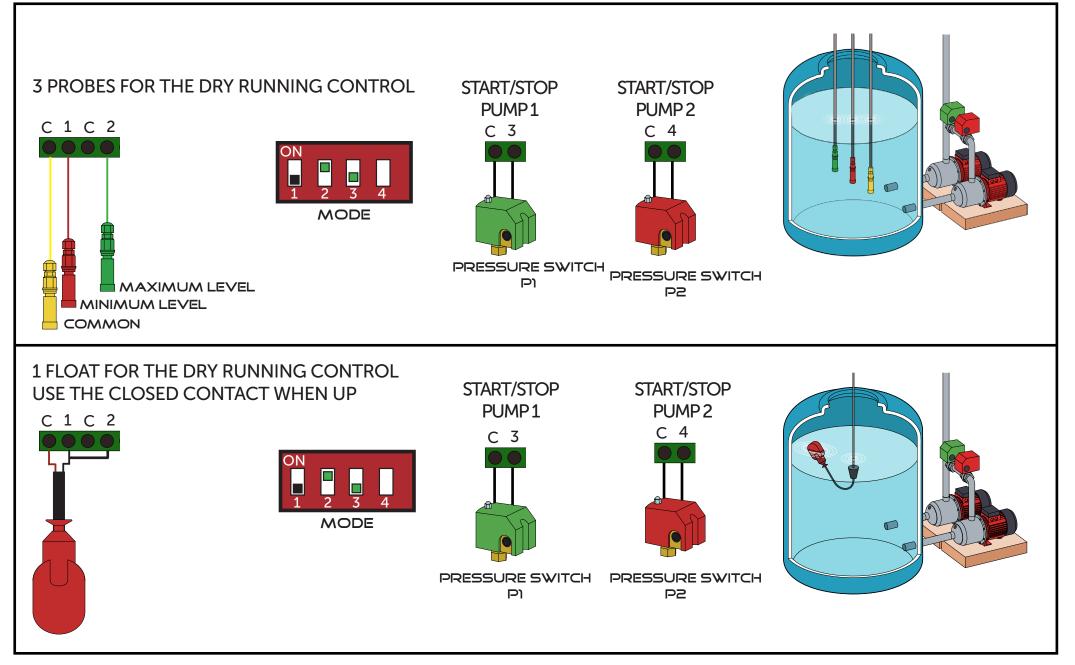


START/STOP PUMP N° 1 + EXCHANGER FUNCTION + STARTS THE SECOND PUMP HELPING THE FIRST WHEN THE LEVEL IS HIGH+ HIGH LEVEL ALARM switches ON the inner BUZZER (Excludible) + relay for the remote Alarm + Red light on the panel

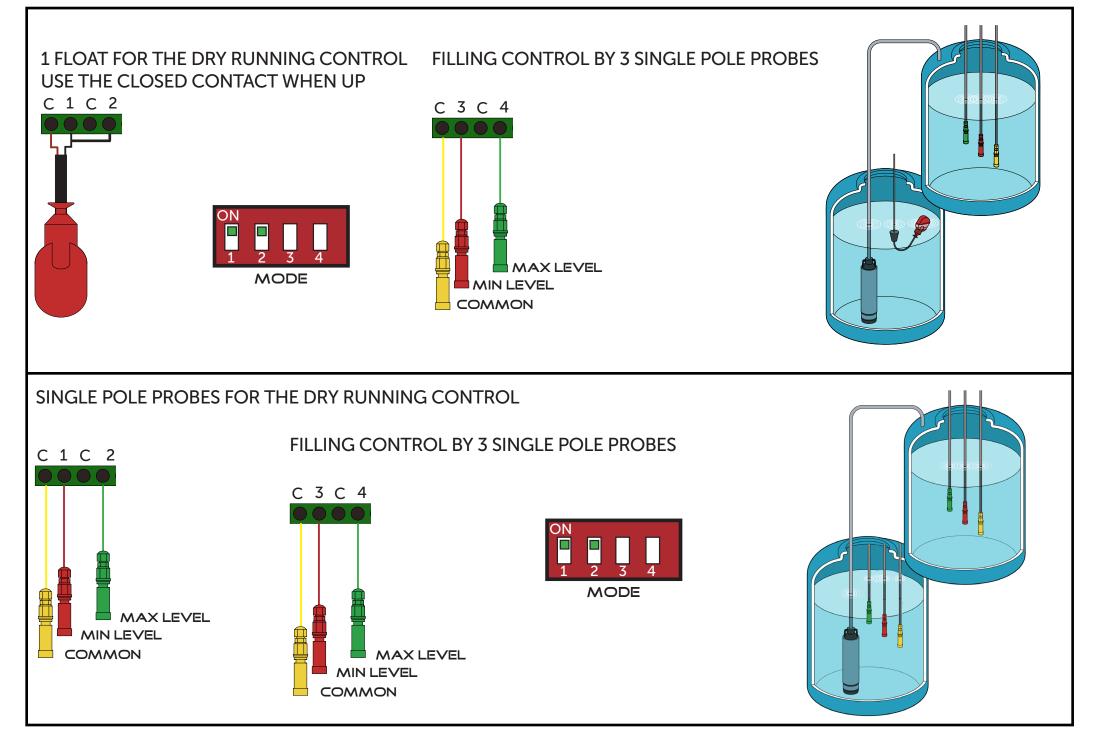
## BOOSTER 1 PUMP (MODE 1 OFF, 2 ON, 3 ON)

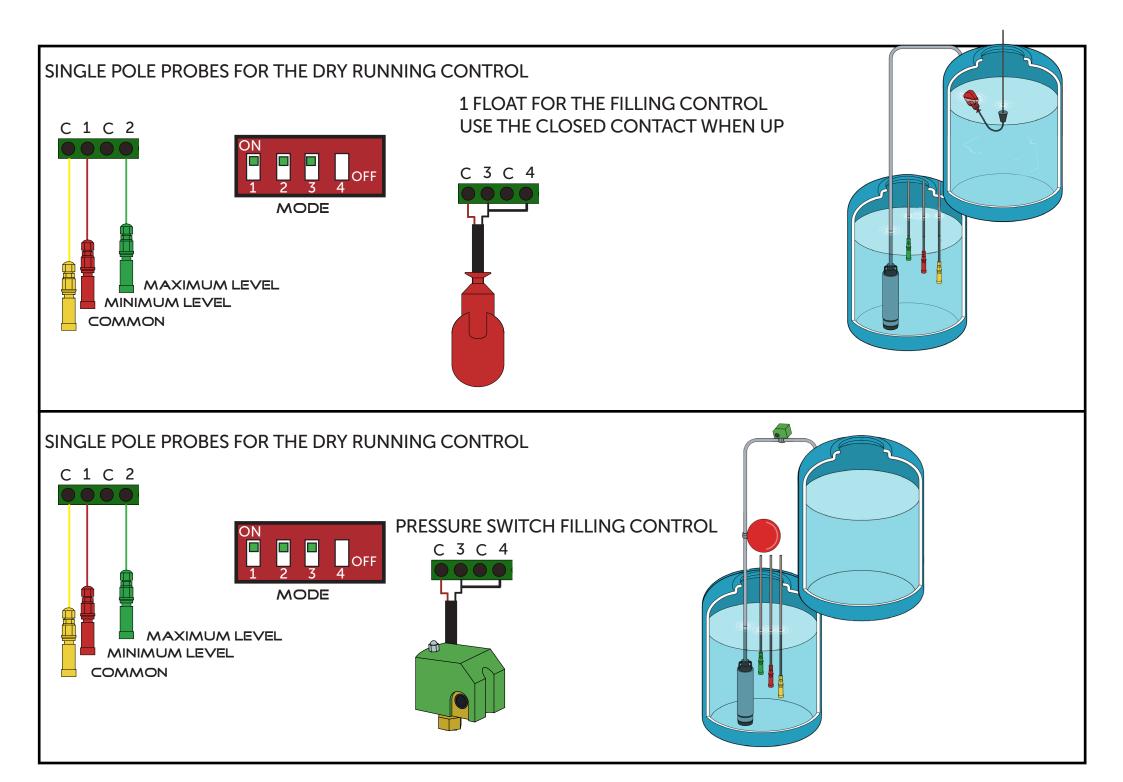


## BOOSTER WITH2 PUMPS AND EXCHANGER FUNCTION (MODE 1 OFF, 2 ON, 3 OFF) THE PRESSURE SWITCH N° 2 MUST TO BE SET LOWER THAN THE FIRST ONE . IF NOT THE PANEL SWITCHES ON AN ALARM

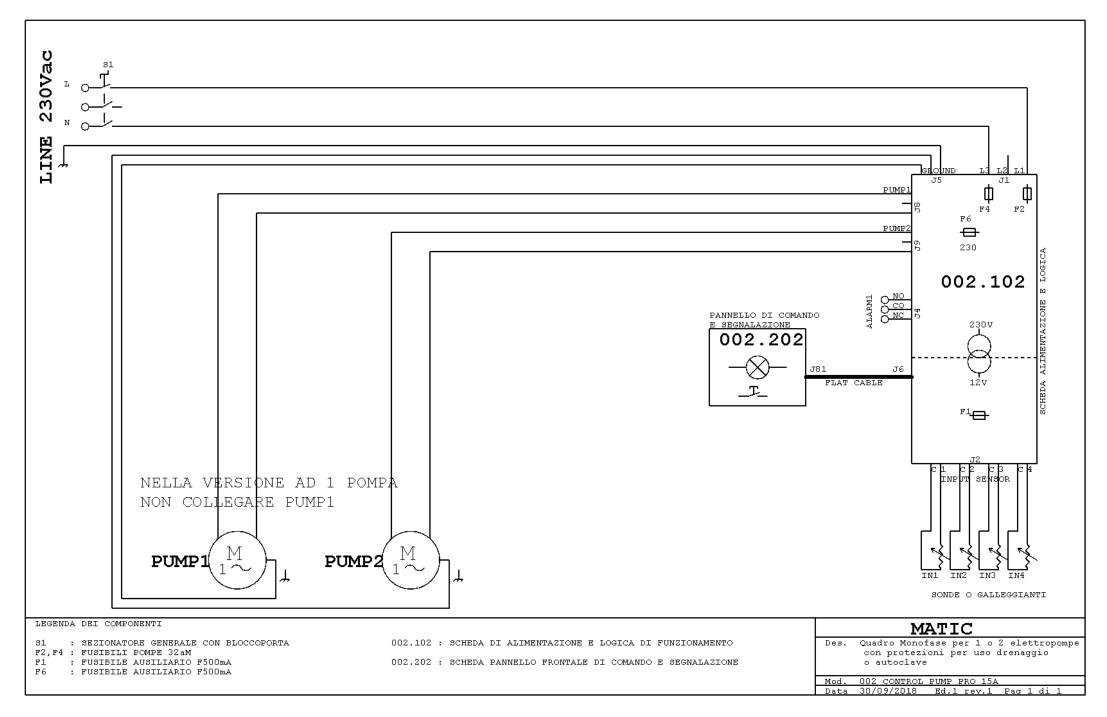


FILLING PUMP FUNCTION (MODE 1 0N, 2 ON, 3 ON)

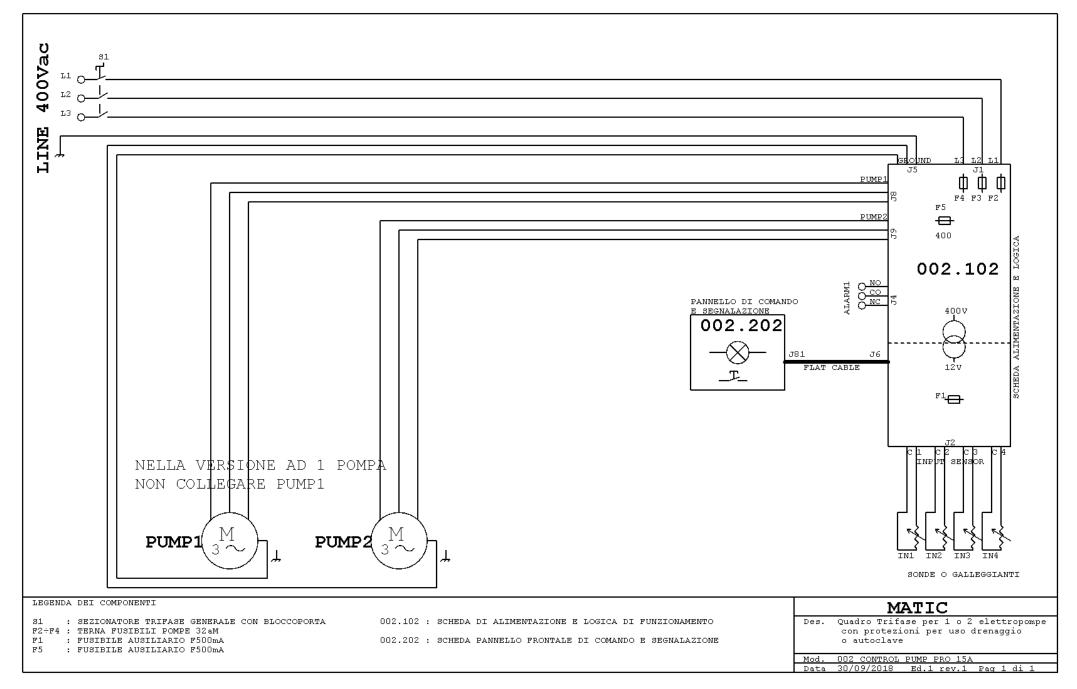




#### WIRING DIAGRAM



#### WIRING DIAGRAM



NOTE

NOTE	

NOTE

NOTE	



Via delle Fonti, 8 - 50010 Badia a Settimo - Scandicci (Fi) ITALY Tel. 0039-055721233 (3 r.a.) - fax 055791209 www.matic.it e-mail: info@matic.it