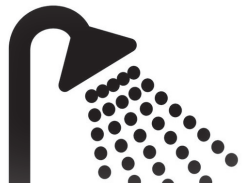


# 2 CONTROL PUMP PLUS cod. DBCP rev. 2

## 1 & 2 PUMPS SINGLE PHASE & THREE PHASE

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

**DRAINAGE - BOOSTER or FILLING TANK**



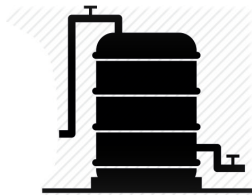
BOOSTER



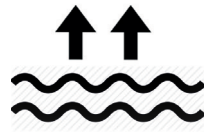
SUBMERSIBLE



SINGLE PHASE



FILLING PUMP CONTROL



DRAINAGE



THREE PHASE



ONE PUMP



TWO PUMPS



To Install According CEE el . n° 24.  $I \Delta n = 30 \text{ mA}$  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.

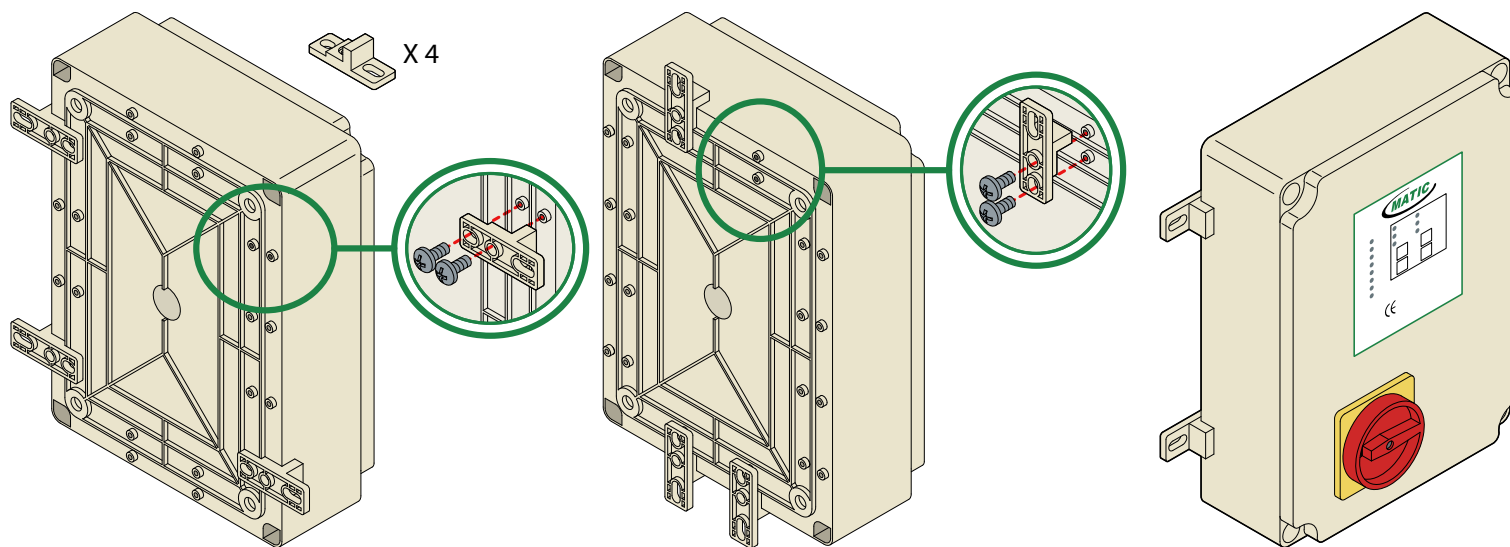
Ensure the installation is connected to an efficient earthing system.

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.

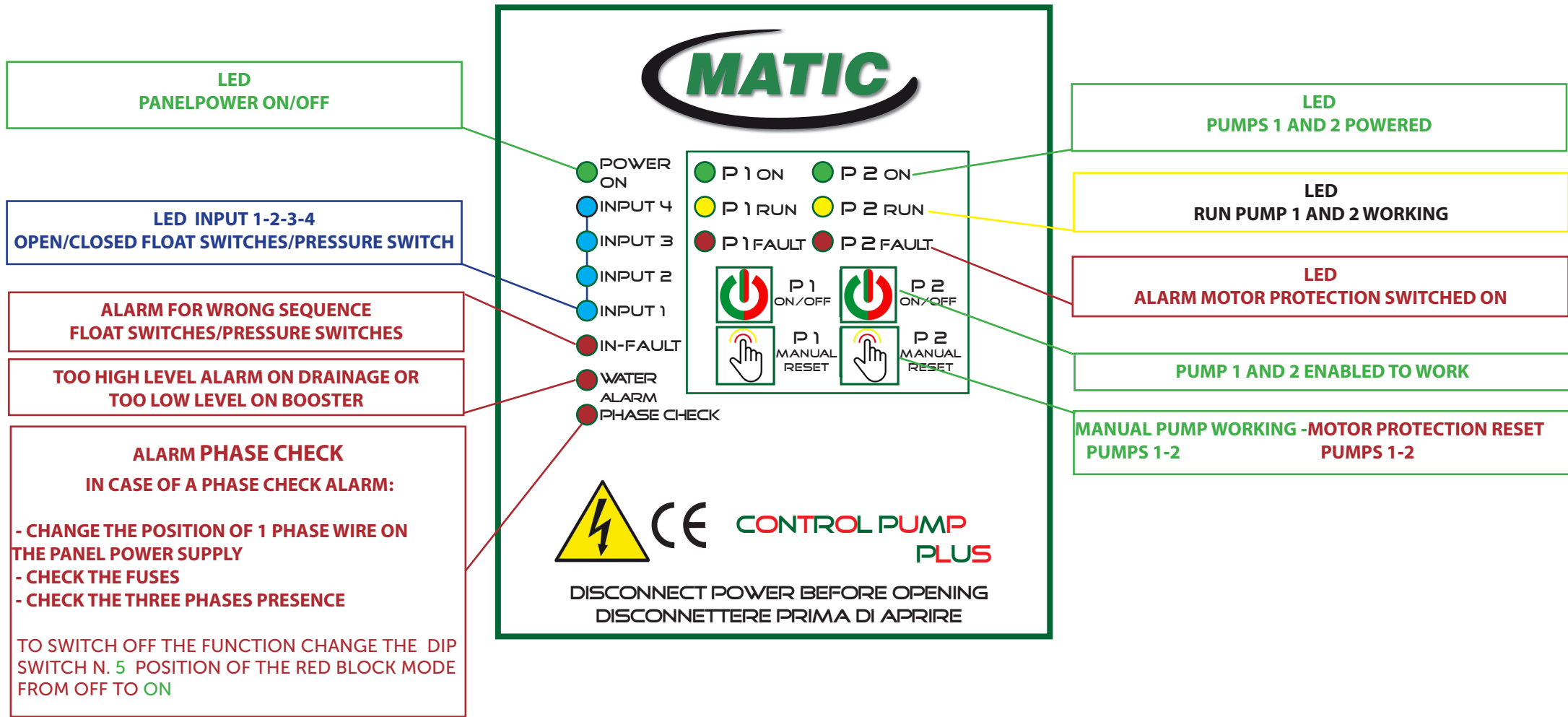
All wires used in the cabling must be suitably sized to withstand the load to be powered.

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



H	W	L
mm		
305	224	127
BRACKETS 20 mm		

# CONTROL PANEL GENERAL VIEW





LC 400  
FUZE 5X20

WARNING  
DON'T USE  
BOTH FUSES  
TOGETHER

230

ON ON ON ON  
1 2 3 4 5 6 7 8 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6

MODE TIMER CURRENT1 CURRENT2

MIEL 39/18  
MATIC 002-024

WATER  
SENS.

32A  
400V  
120V

finder  
50A 400/690V~  
EN 03 CABS  
480V~  
Made in EU-01 K16

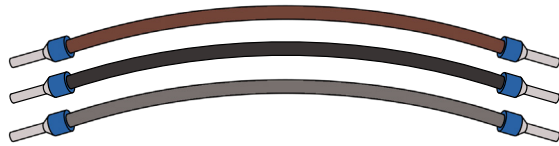
finder  
50A 400/690V~  
EN 03 CABS  
480V~  
Made in EU-01 K16

NC CO NO

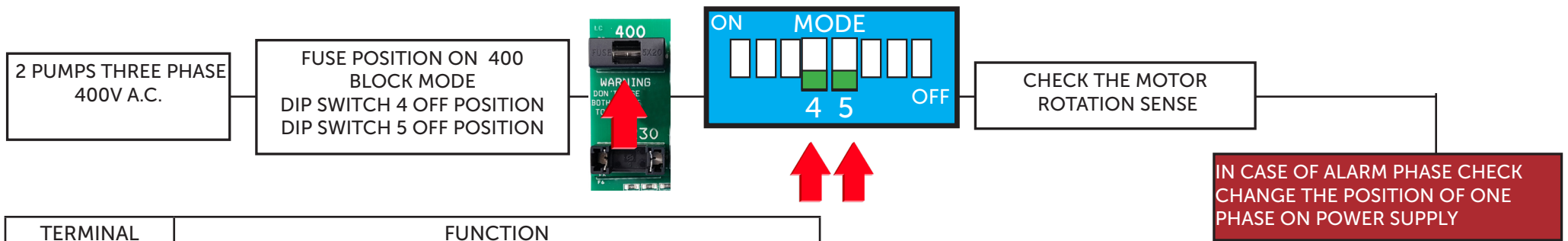
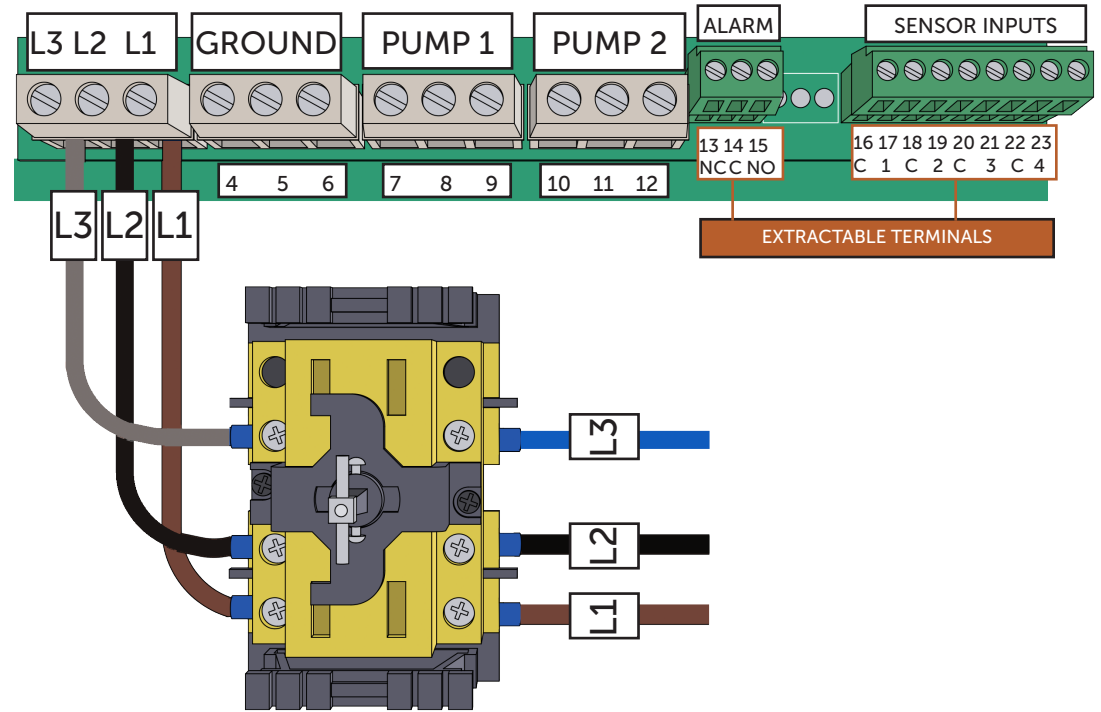


# 400V a.c. 3 PHASE SUPPLY - TWIN PUMPS - MAX 5,5 kW circa MAX 15 AMPERE

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

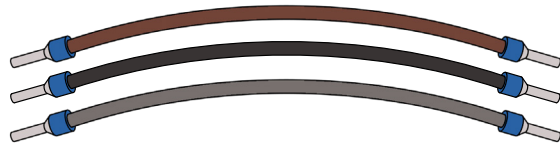


TERMINAL	FUNCTION
L3	L3 PANEL POWER SUPPLY THREE PHASE GREY WIRE
L2	L2 PANEL POWER SUPPLY THREE PHASE BLACK WIRE
L1	L1 PANEL POWER SUPPLY THREE PHASE BROWN WIRE
4	GROUND
5	GROUND
6	GROUND
7	PHASE 1 PUMP 1
8	PHASE 2 PUMP 1
9	PHASE 3 PUMP 1

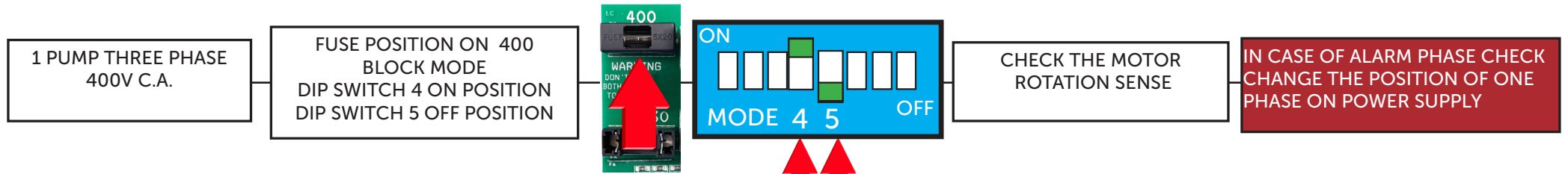
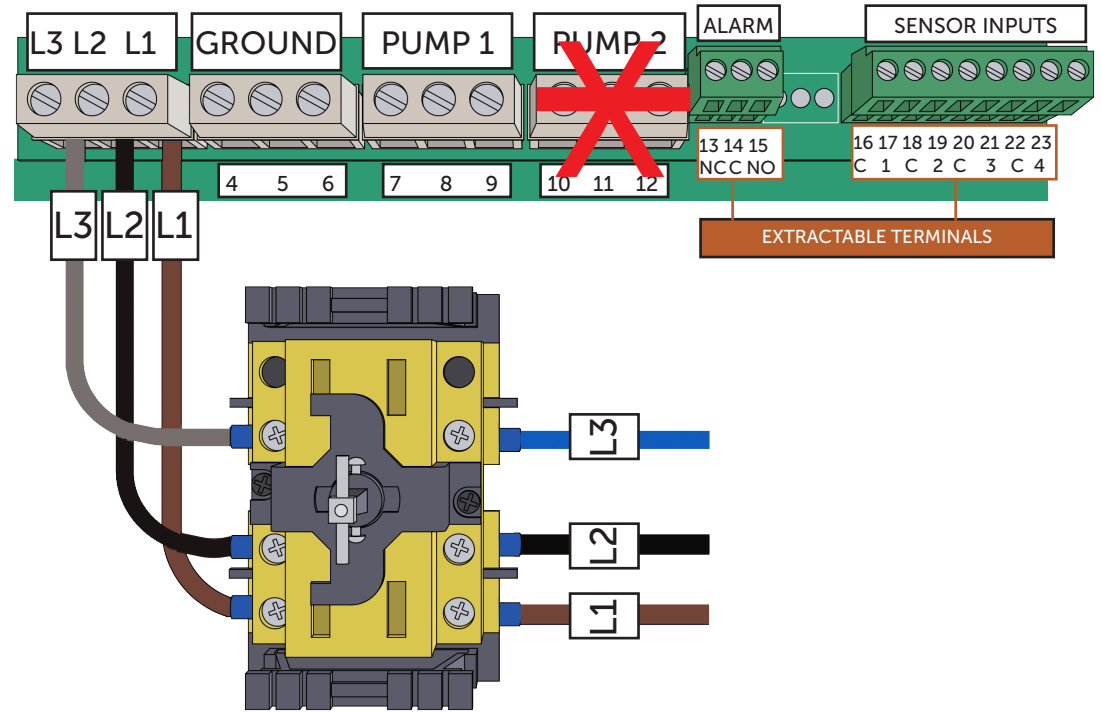
TERMINAL	FUNCTION
10	PHASE 1 PUMP 2
11	PHASE 2 PUMP 2
12	PHASE 3 PUMP 2
13	ALARM RELAY OUTPUT NC
14	ALARM RELAY OUTPUT COM.
15	ALARM RELAY OUTPUT NO
16-17-18-19-20-21 SENSOR CONNECTION	

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

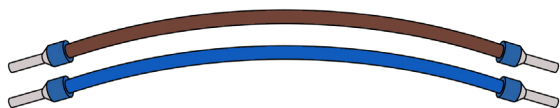


TERMINAL	FUNCTION
L3	L3 PANEL POWER SUPPLY THREE PHASE GREY WIRE
L2	L2 PANEL POWER SUPPLY THREE PHASE BLACK WIRE
L1	L1 PANEL POWER SUPPLY THREE PHASE BROWN WIRE
4	GROUND
5	GROUND
6	GROUND
7	PHASE 1
8	PHASE 2
9	PHASE 3

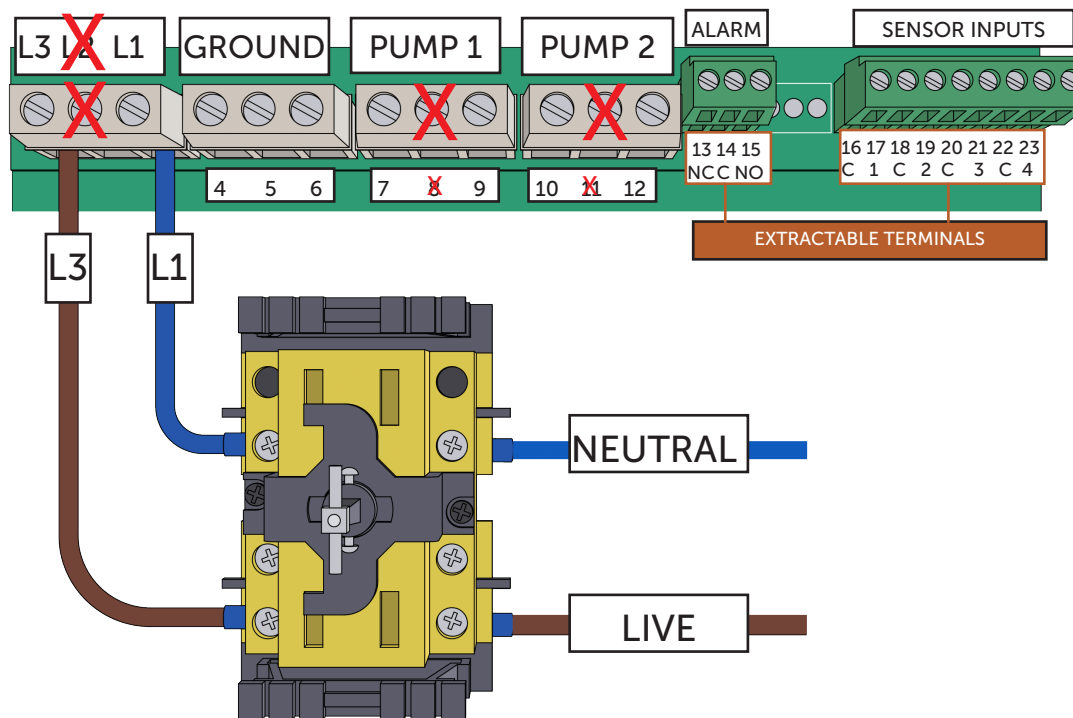
TERMINALE	FUNCTION
10	NOT CONNECTED
11	NOT CONNECTED
12	NOT CONNECTED
13	ALARM RELAY OUTPUT NC
14	ALARM RELAY OUTPUT COM.
15	ALARM RELAY OUTPUT NO
16-17-18-19-20-21	SENSOR CONNECTION

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

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

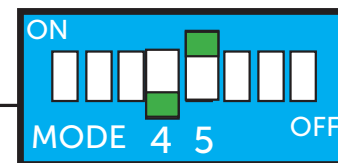


After The Connection Please Follow The Next Steps On The Following Pages For 230V A.c. Supply, Twin Pump Set Up



2 PUMP SINGLE PHASE  
230V A.C.

FUSE POSITION ON 230  
BLOCK MODE  
DIP SWITCH 4 OFF POSITION  
DIP SWITCH 5 ON POSITION

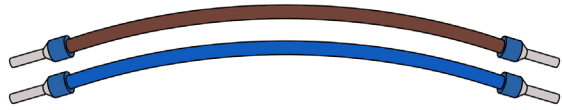


TERMINAL	FUNCTION
L3	L3 PANEL POWER SINGLE PHASE LIVE BROWN WIRE
2	L2 NOT CONNECTED
L3	L1 PANEL POWER SINGLE NEUTRAL BLUE WIRE
4	GROUND
5	GROUND
6	GROUND
7	PHASE PUMP 1
8	NOT CONNECTED
9	NEUTRAL PUMP 1

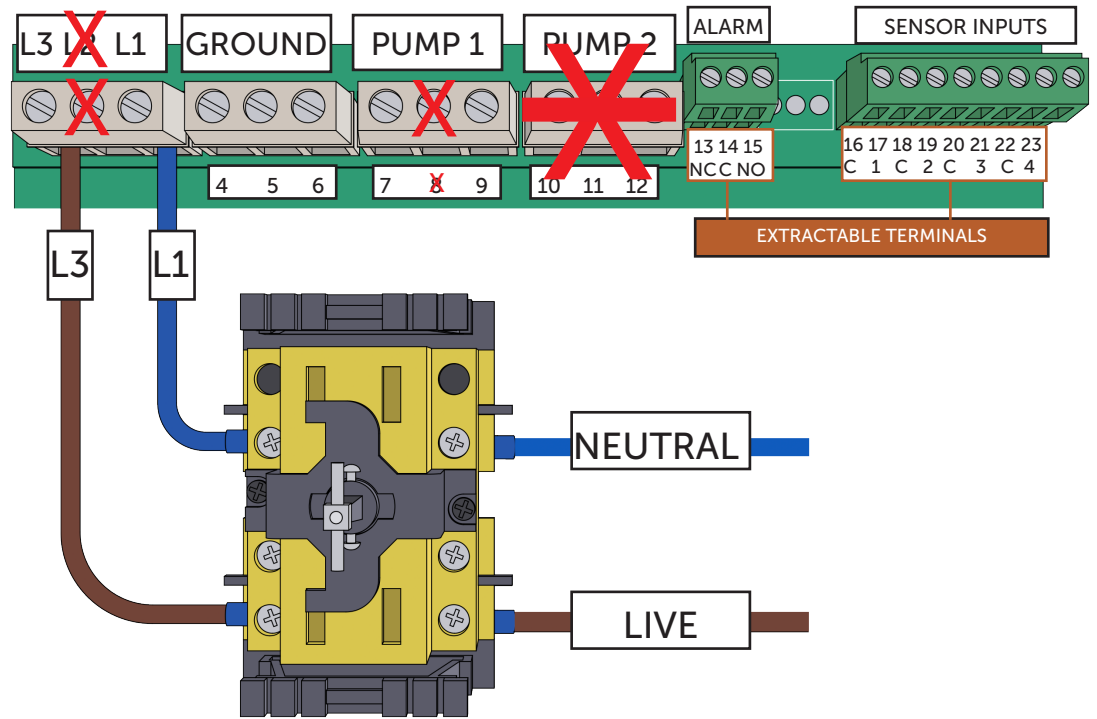
TERMINAL	FUNCTION
10	PHASE PUMP 2
11	NOT CONNECTED
12	NEUTRAL PUMP 2
13	ALARM RELAY OUTPUT NC
14	ALARM RELAY OUTPUT COM.
15	ALARM RELAY OUTPUT NO
16-17-18-19-20-21 SENSOR CONNECTION	

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

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, Single Pump Set Up



1 PUMP  
SINGLE PHASE  
230V A.C.

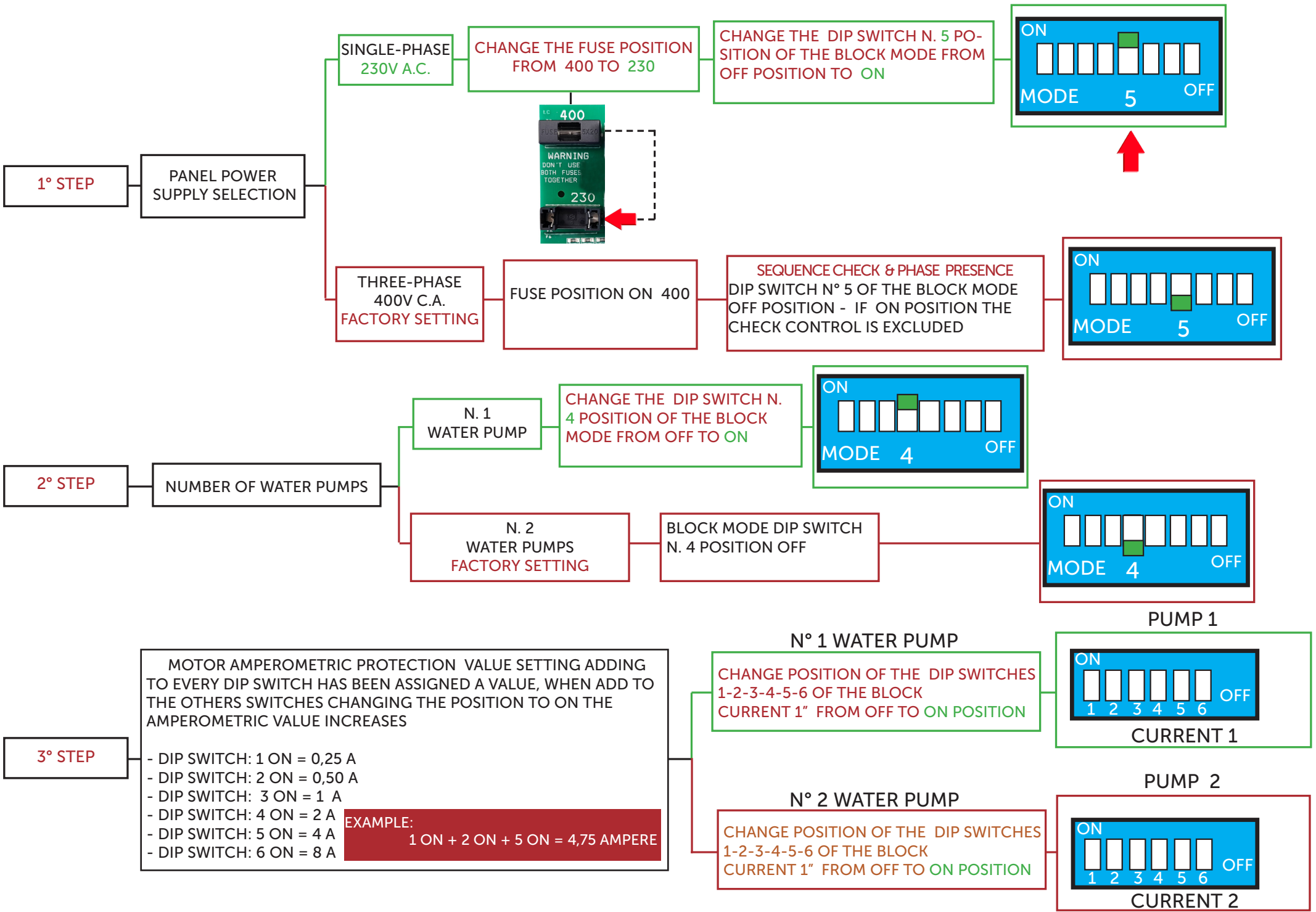
FUSE POSITION ON 230  
BLOCK MODE  
DIP SWITCH 4 ON POSITION  
DIP SWITCH 5 ON POSITION

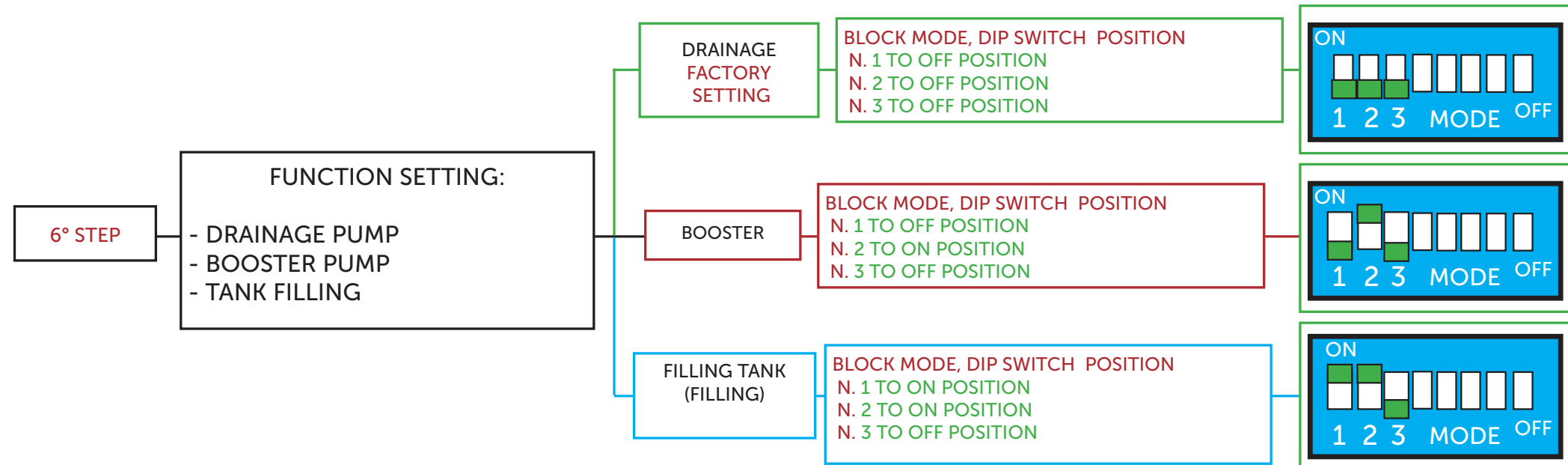
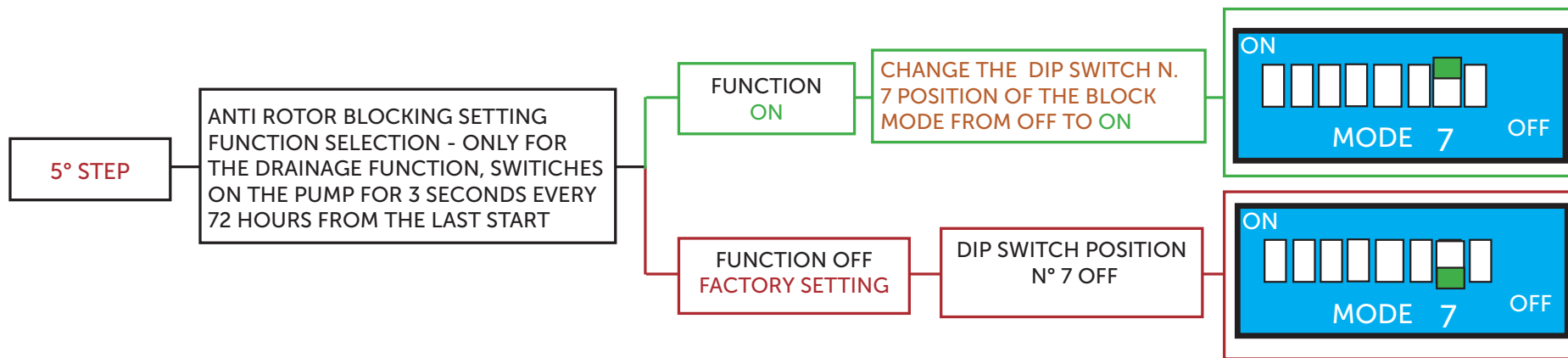
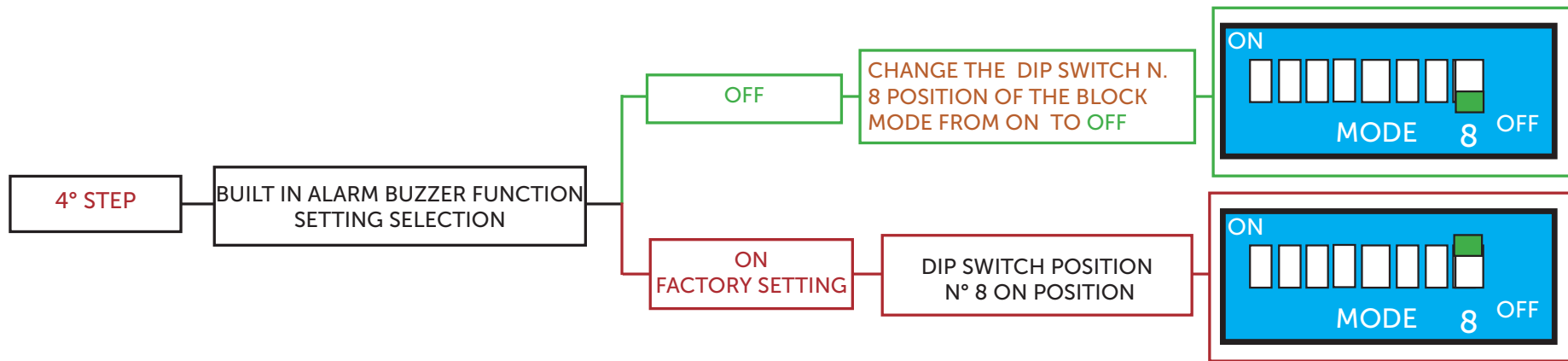


TERMINAL	FUNCTION
L3	L3 PANEL POWER SINGLE PHASE LIVE BROWN WIRE
2	L2 NOT CONNECTED
L1	L1 PANEL POWER SINGLE NEUTRAL BLUE WIRE
4	GROUND
5	GROUND
6	GROUND
7	PHASE PUMP 1
8	NOT CONNECTED
9	NEUTRAL PUMP 1

TERMINAL	FUNCTION
10	NOT CONNECTED
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

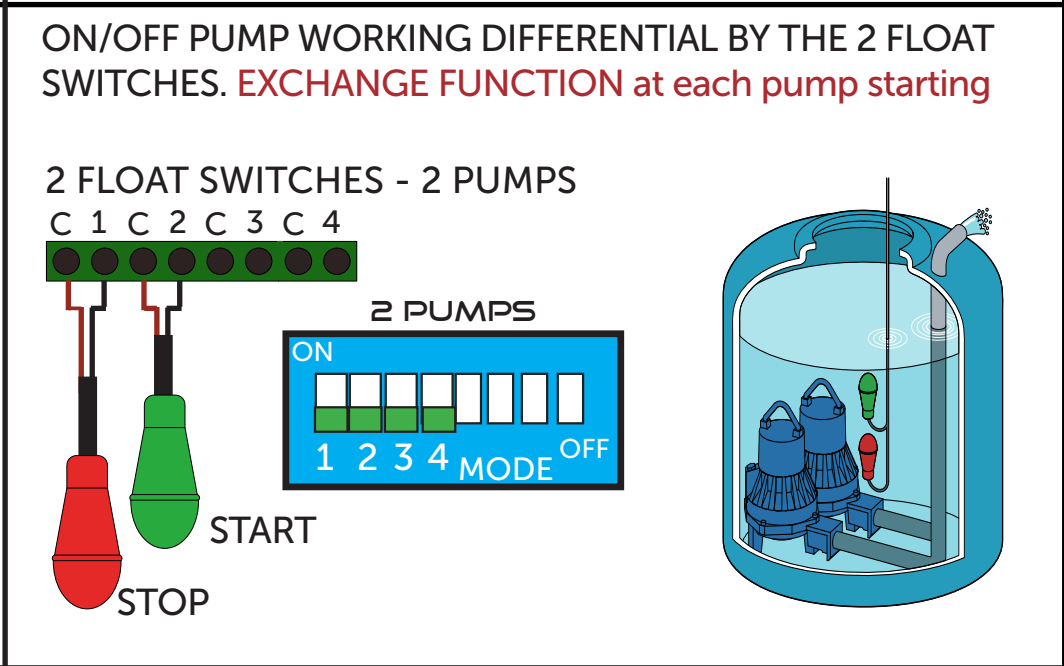
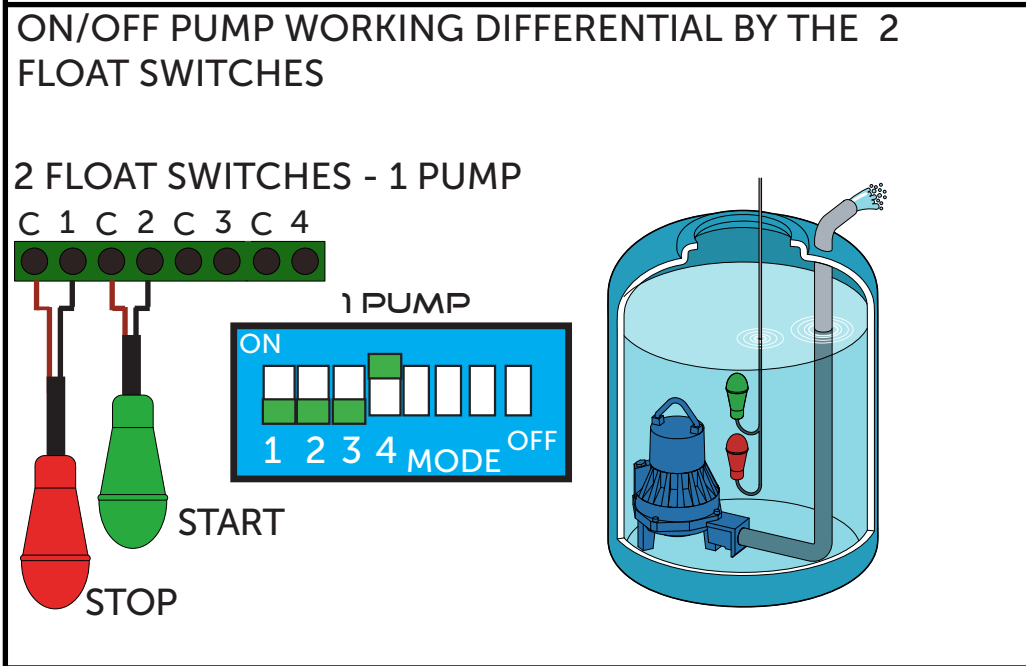
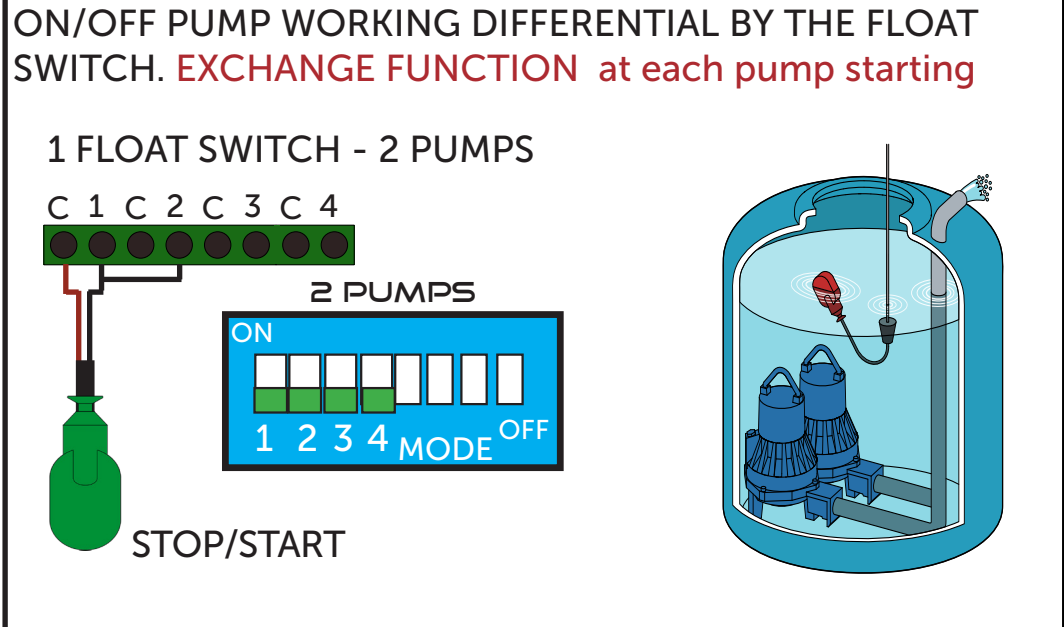
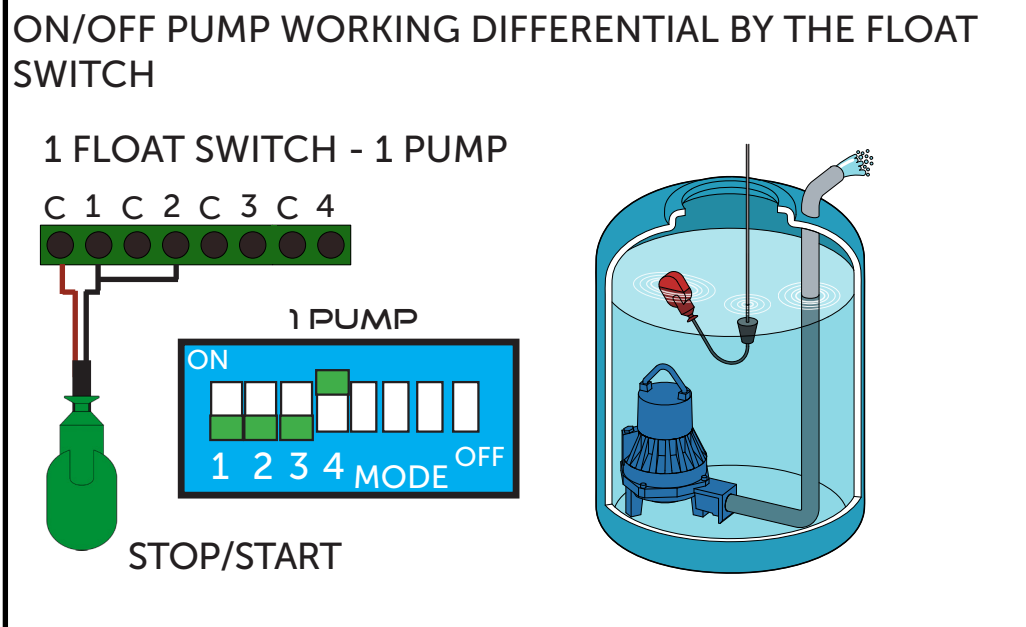






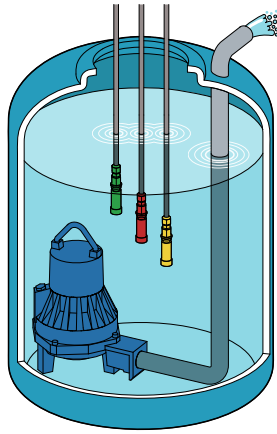
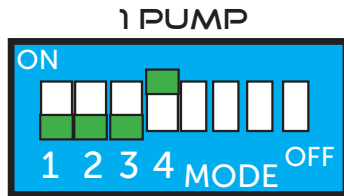
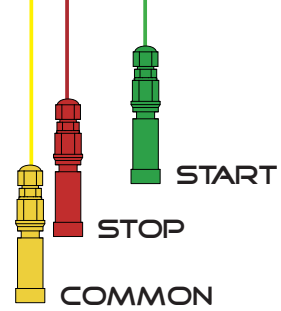
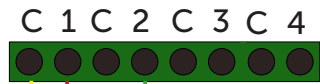
# DRAINAGE (MODE 1 OFF, 2 OFF, 3 OFF)

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 OBLIGATORY

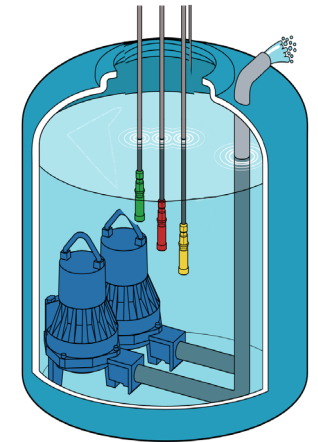
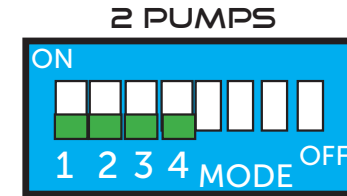
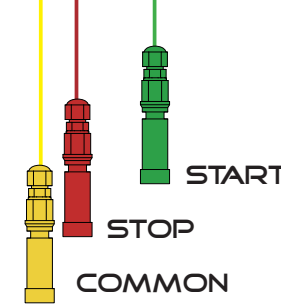
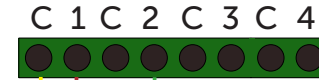
3 PROBES - 1 PUMP



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

EXCHANGE FUNCTION at each pump starting

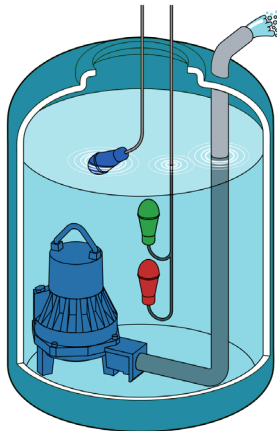
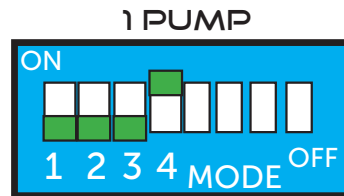
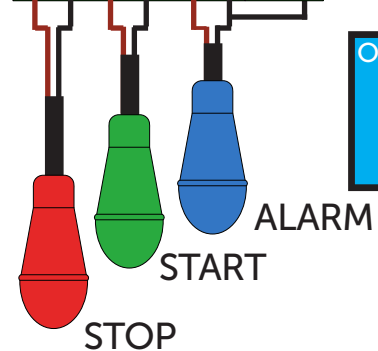
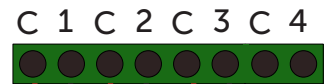
3 PROBES - 2 PUMPS



START/STOP + HIGH LEVEL ALARM

switches ON the inner BUZZER (Excludible) + relay for the remote Alarm + Red light on the panel

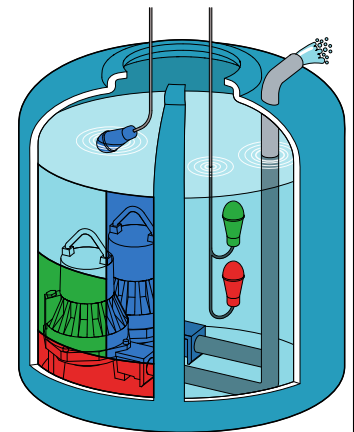
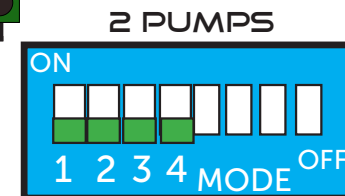
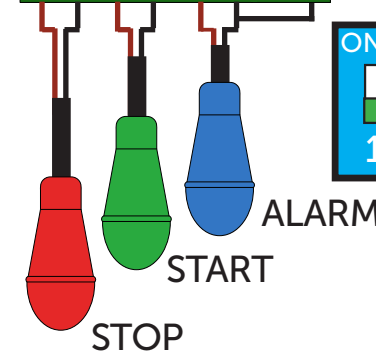
3 FLOAT SWITCHES - 1 PUMP



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

3 FLOAT SWITCHES - 2 PUMPS



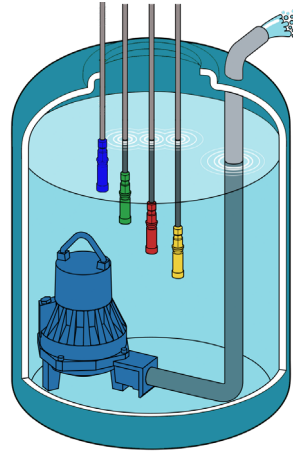
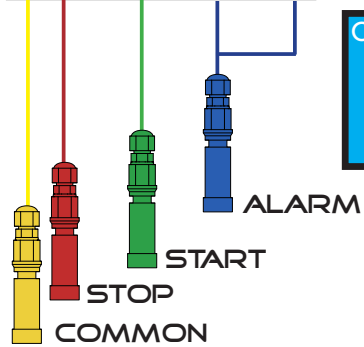


### START/STOP + HIGH LEVEL ALARM

switches ON the inner BUZZER (Excludible) + relay for the remote Alarm + Red light on the panel

#### 4 PROBES - 1 PUMP

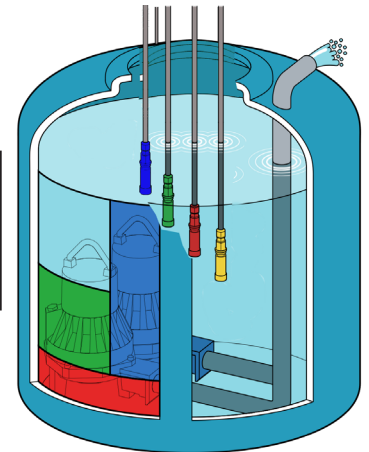
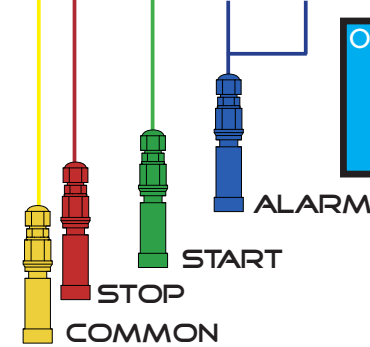
C 1 C 2 C 3 C 4



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

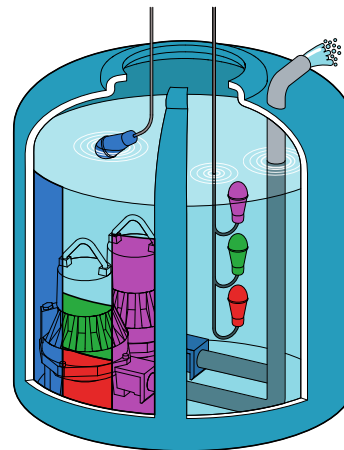
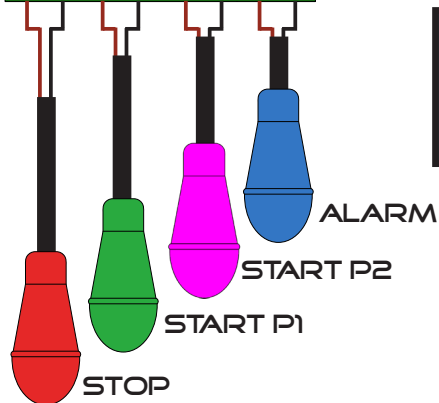
#### 4 PROBES - 2 PUMPS

C 1 C 2 C 3 C 4



#### 4 FLOAT SWITCHES - 2 PUMPS

C 1 C 2 C 3 C 4

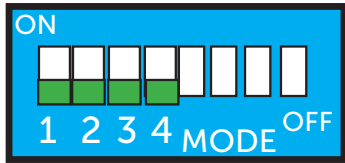


START/STOP PUMP N° 1 + EXCHANGER FUNCTION + STARTS THE SECOND PUMP HELPING THE FIRST WHEN THE LEVEL IS HIGH + HIGH LEVEL ALARM switches ON the inner BUZZER (Excludible) + relay for the remote Alarm + Red light on the panel

5 PROBES - 2 PUMPS



2 PUMPS



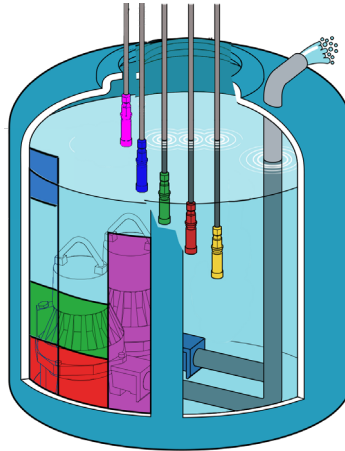
ALARM

START P2

START P1

STOP

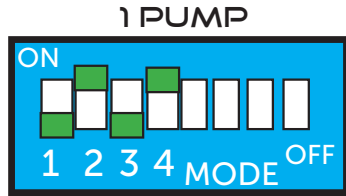
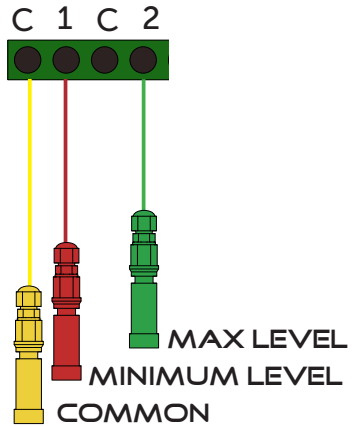
COMMON



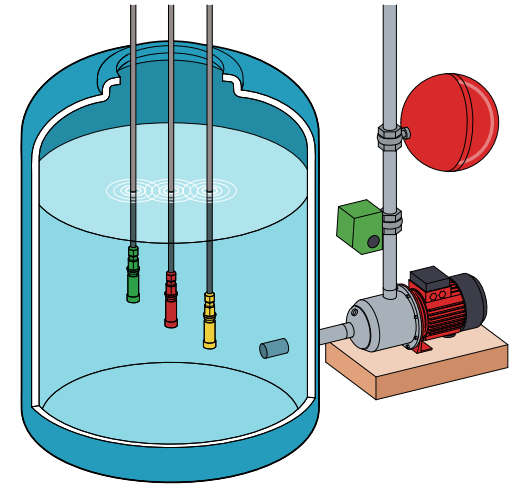
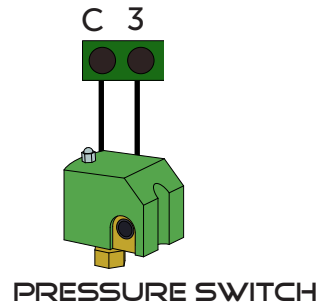
START/STOP PUMP N° 1 + EXCHANGER FUNCTION  
+ STARTS THE SECOND PUMP HELPING THE FIRST  
WHEN THE LEVEL IS HIGH+ **HIGH LEVEL ALARM**  
switches ON the inner BUZZER (Excludible) + relay  
for the remote Alarm + Red light on the panel

# BOOSTER 1 PUMP (MODE 1 OFF, 2 ON, 3 OFF, 4 ON)

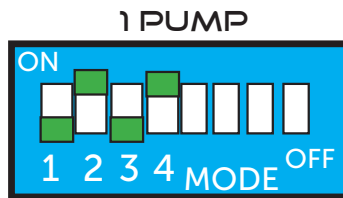
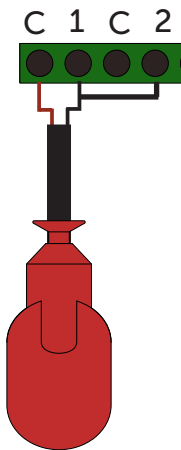
3 PROBES FOR THE DRY RUNNING CONTROL



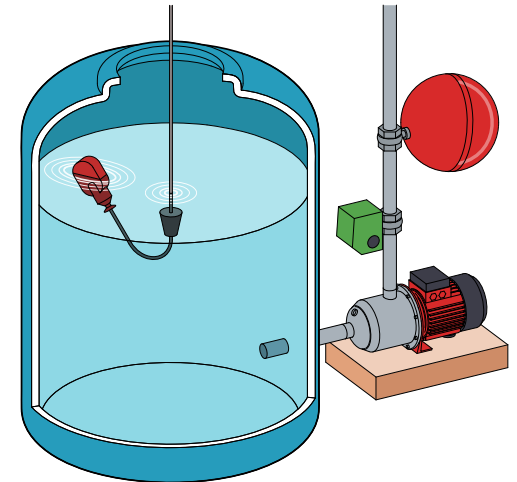
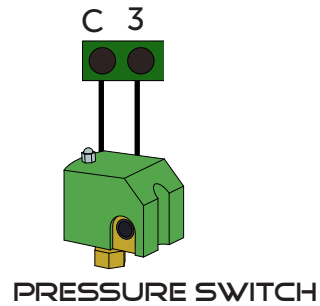
START/STOP  
1 PUMP



1 FLOAT FOR THE DRY RUNNING CONTROL  
USE THE CLOSED CONTACT WHEN UP

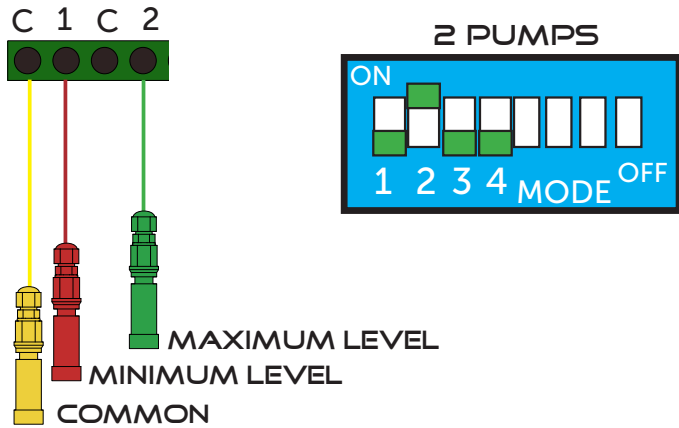


START/STOP  
1 PUMP

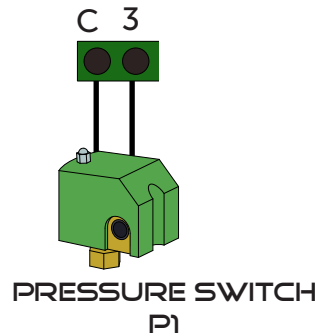


BOOSTER WITH 2 PUMPS AND EXCHANGER FUNCTION (MODE 1 OFF, 2 ON, 3 OFF, 4 OFF)  
 THE PRESSURE SWITCH N° 2 MUST TO BE SET LOWER THAN THE FIRST ONE .  
 IF NOT THE PANEL SWITCHES ON AN ALARM

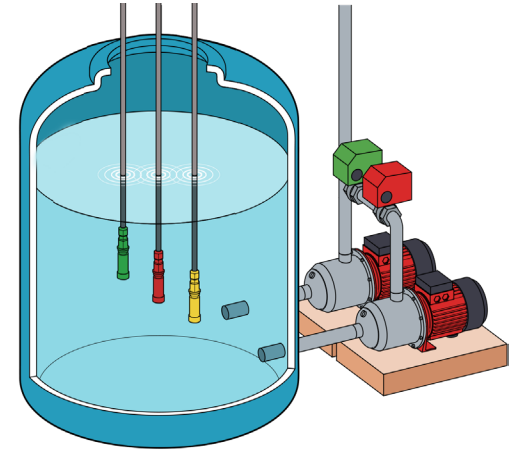
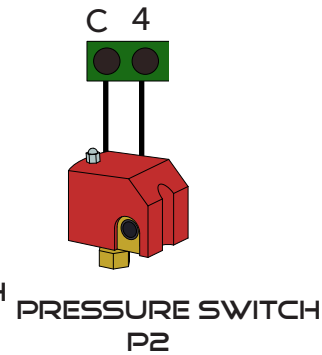
3 PROBES FOR THE DRY RUNNING CONTROL



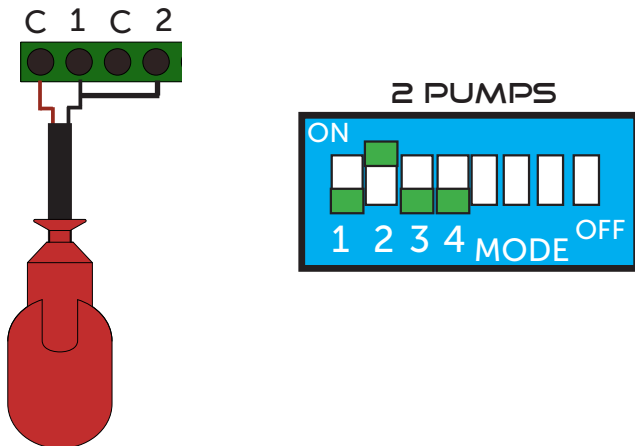
START/STOP  
PUMP 1



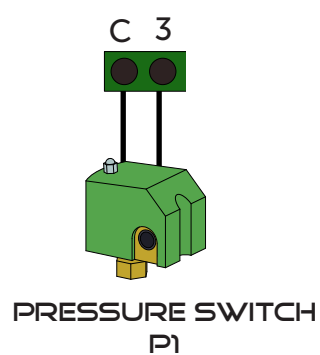
START/STOP  
PUMP 2



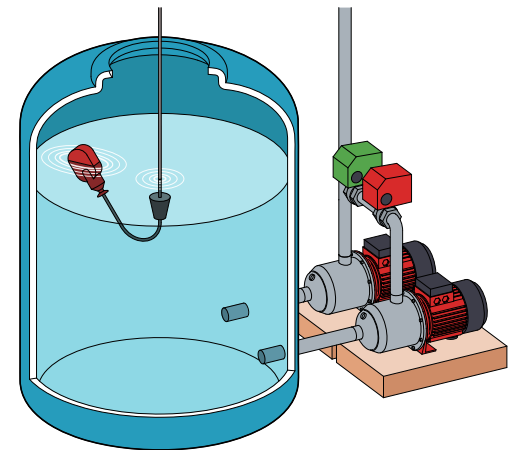
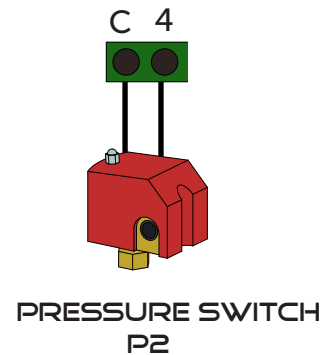
1 FLOAT FOR THE DRY RUNNING CONTROL  
 USE THE CLOSED CONTACT WHEN UP



START/STOP  
PUMP 1



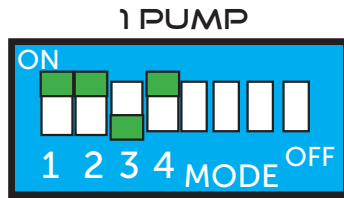
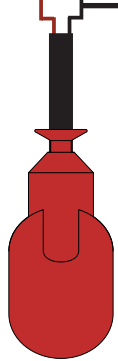
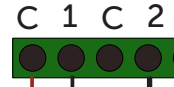
START/STOP  
PUMP 2



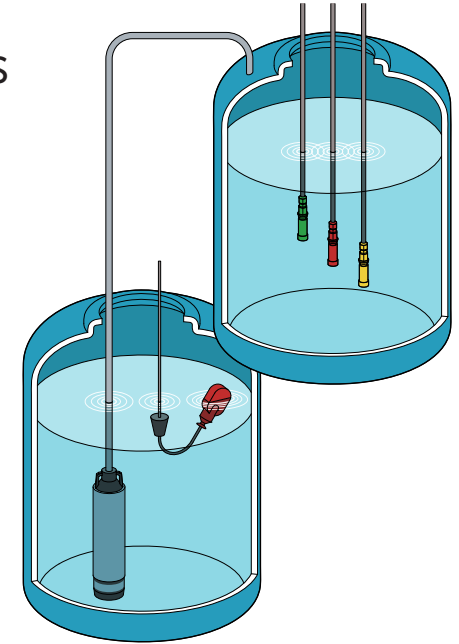
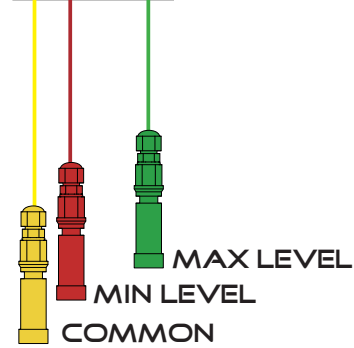


# FILLING PUMP FUNCTION (MODE 1 ON, 2 ON, 3 OFF, 4 ON)

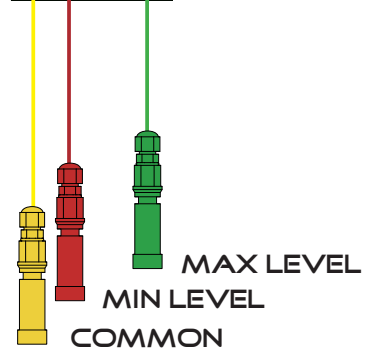
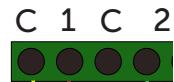
1 FLOAT FOR THE DRY RUNNING CONTROL  
USE THE CLOSED CONTACT WHEN UP



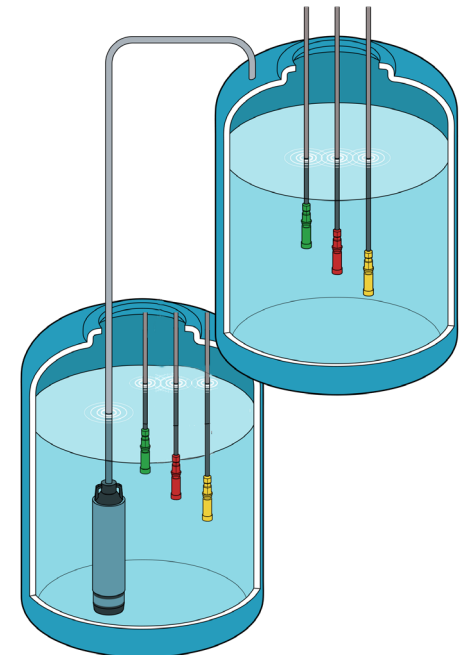
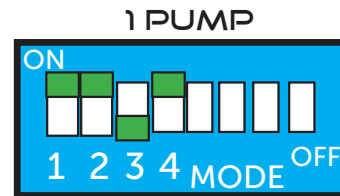
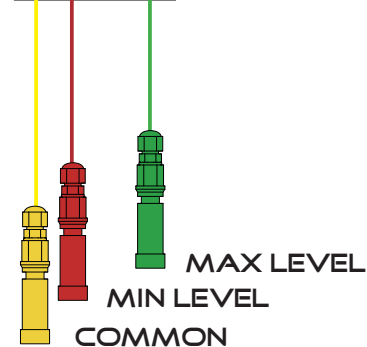
FILLING CONTROL BY 3 SINGLE POLE PROBES



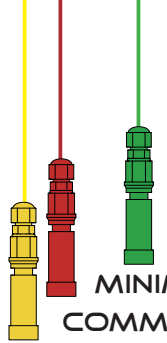
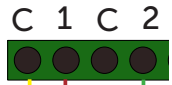
SINGLE POLE PROBES FOR THE DRY RUNNING CONTROL



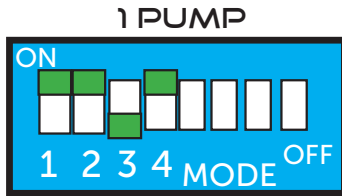
FILLING CONTROL BY 3 SINGLE POLE PROBES



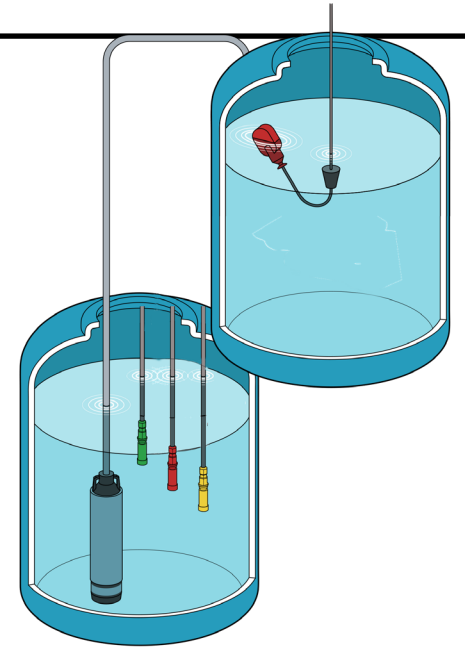
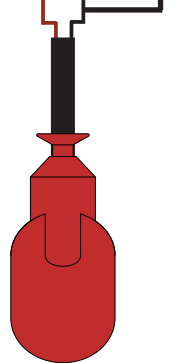
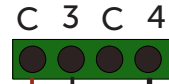
SINGLE POLE PROBES FOR THE DRY RUNNING CONTROL



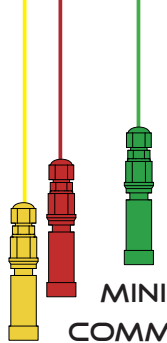
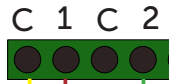
MAXIMUM LEVEL  
MINIMUM LEVEL  
COMMON



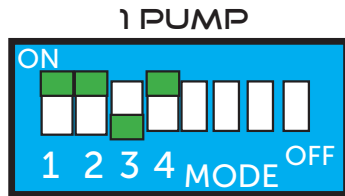
1 FLOAT FOR THE FILLING CONTROL  
USE THE CLOSED CONTACT WHEN UP



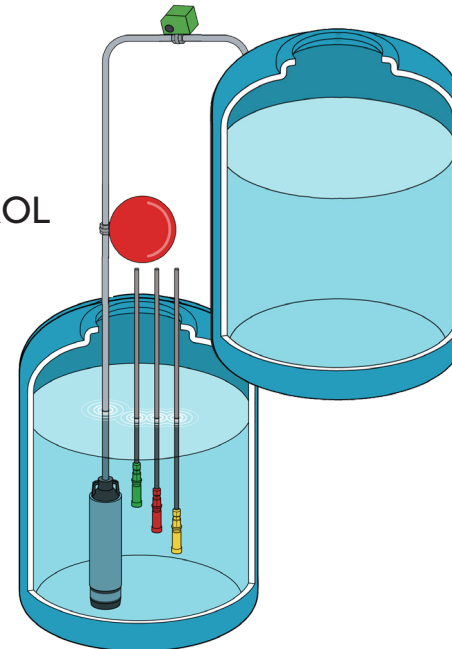
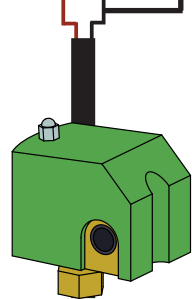
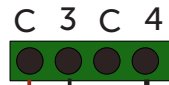
SINGLE POLE PROBES FOR THE DRY RUNNING CONTROL



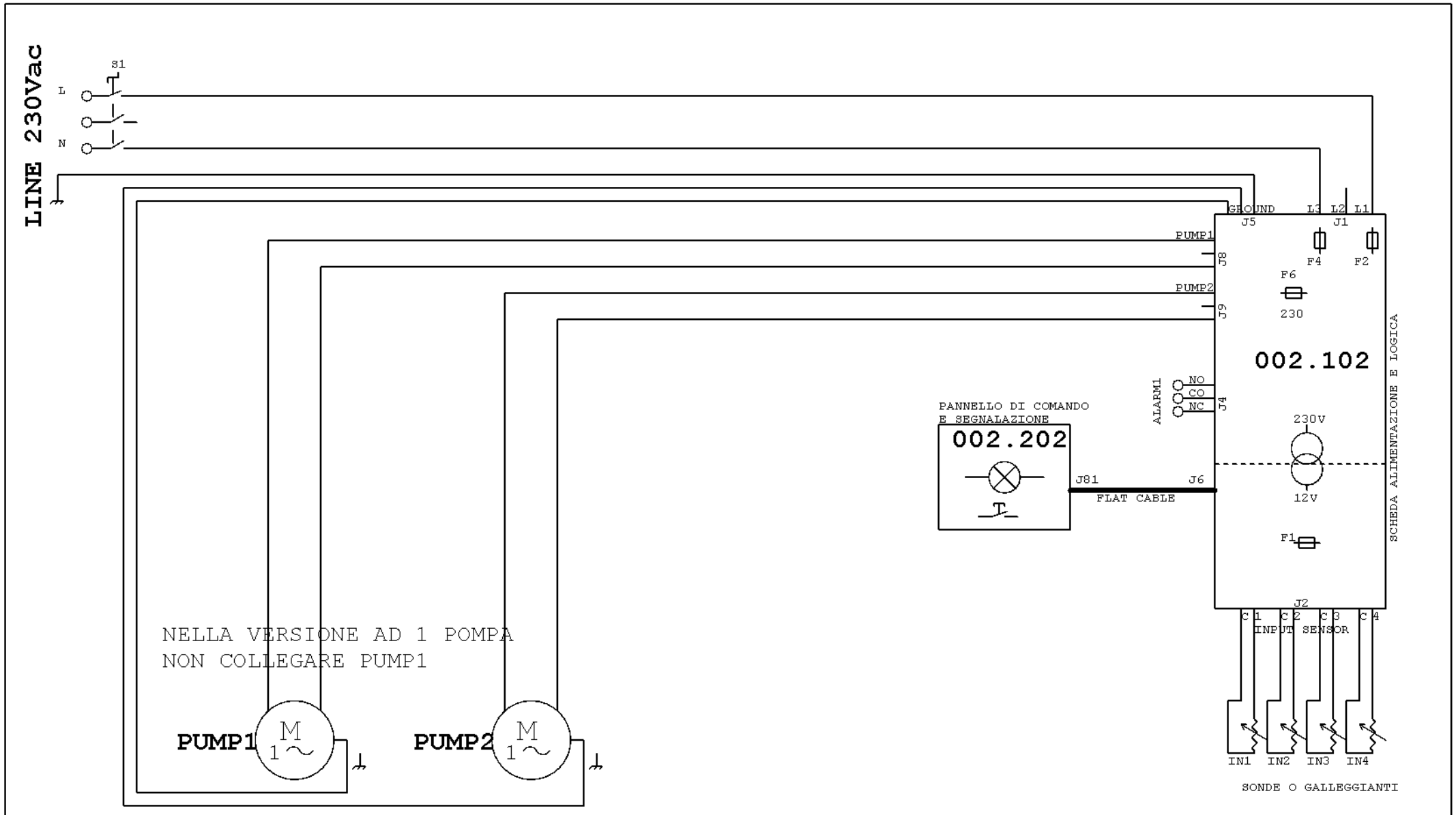
MAXIMUM LEVEL  
MINIMUM LEVEL  
COMMON



PRESSURE SWITCH FILLING CONTROL



# WIRING DIAGRAM



## LEGENDA DEI COMPONENTI

S1 : SEZIONATORE GENERALE CON BLOCCO PORTA  
 F2, F4 : FUSIBILI POMPE 32aM  
 F1 : FUSIBILE AUSILIARIO F500mA  
 F6 : FUSIBILE AUSILIARIO F500mA

002.102 : SCHEDA DI ALIMENTAZIONE E LOGICA DI FUNZIONAMENTO  
 002.202 : SCHEDA PANNELLO FRONTALE DI COMANDO E SEGNALAZIONE

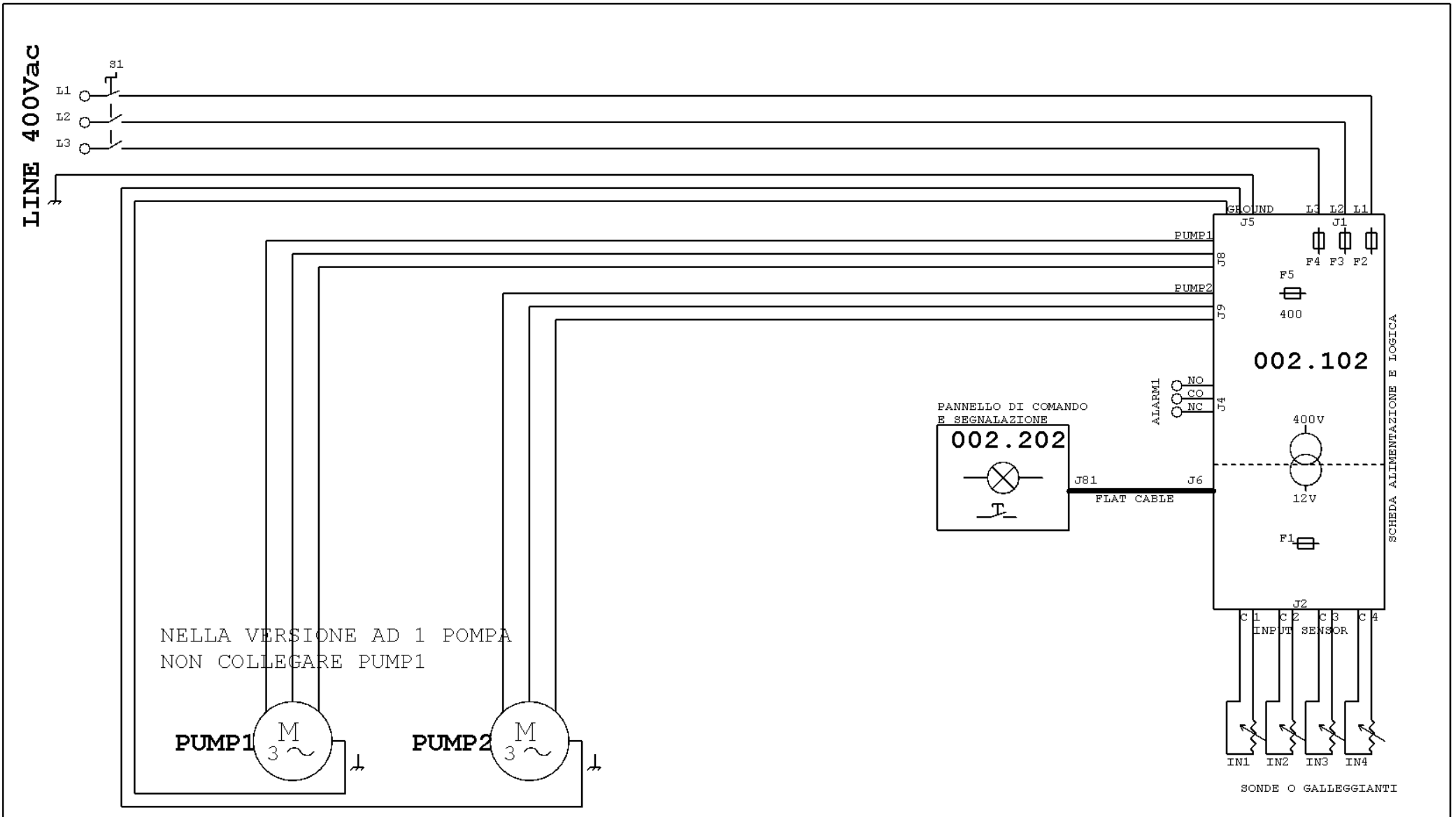
## MATIC

Des. Quadro Monofase per 1 o 2 elettropompe con protezioni per uso drenaggio o autoclave

Mod. 002 CONTROL PUMPE PRO 15A

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# WIRING DIAGRAM



**LEGENDA DEI COMPONENTI**

S1 : SEZIONATORE TRIFASE GENERALE CON BLOCCOPORTA  
 F2÷F4 : TERNA FUSIBILI POMPE 32mA  
 F1 : FUSIBILE AUSILIARIO F500mA  
 F5 : FUSIBILE AUSILIARIO F500mA

002.102 : SCHEDA DI ALIMENTAZIONE E LOGICA DI FUNZIONAMENTO  
 002.202 : SCHEDA PANNELLO FRONTALE DI COMANDO E SEGNALAZIONE

**MATIC**

Des. Quadro Trifase per 1 o 2 elettropompe  
 con protezioni per uso drenaggio  
 o autoclave

Mod. 002 CONTROL PUMP PRO 15A

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