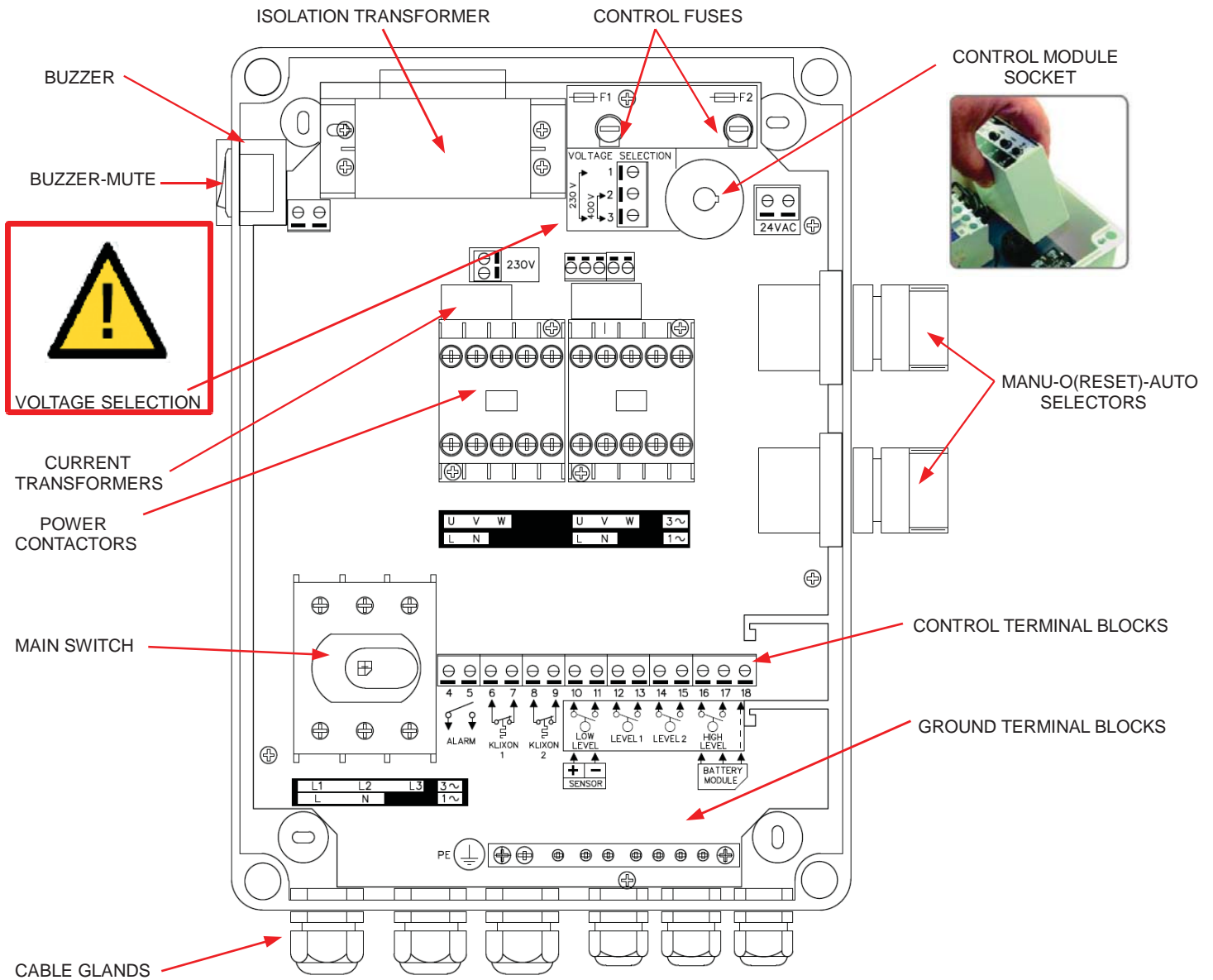
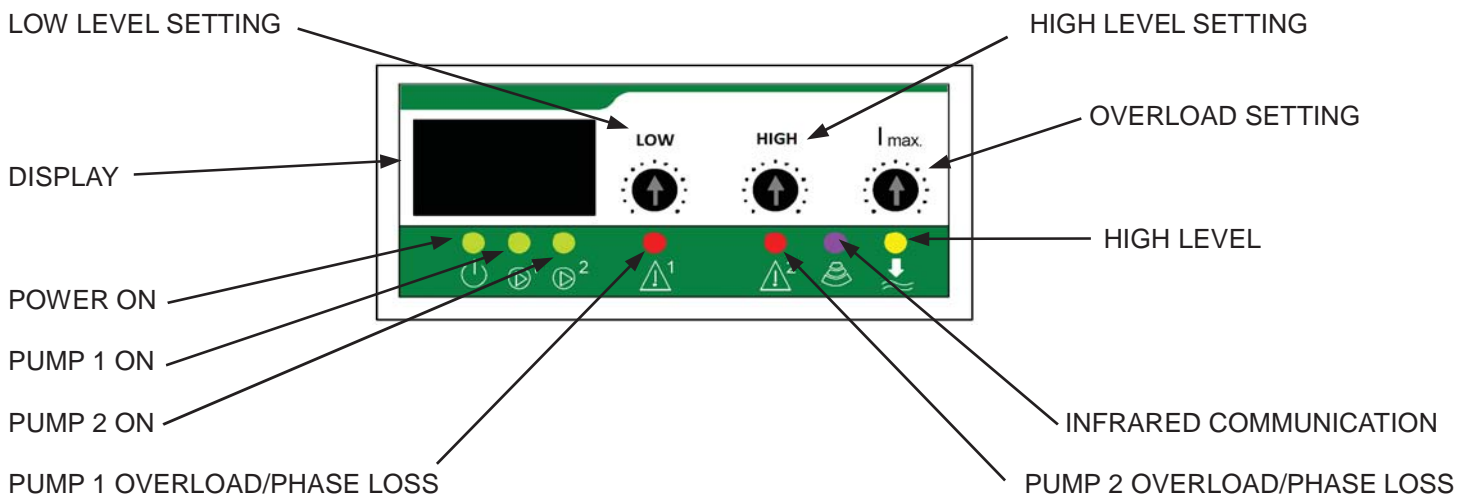


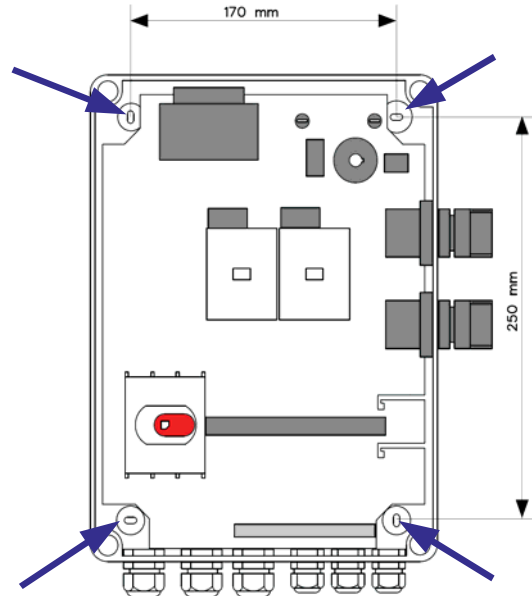
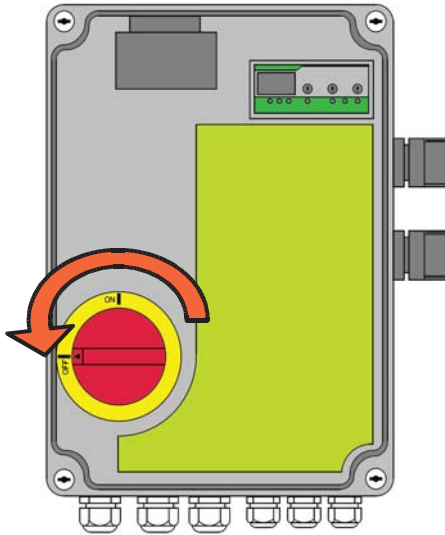
## internal configuration



## control module



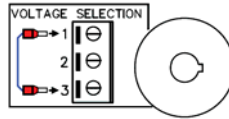
# installation



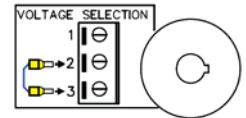
# voltage selection



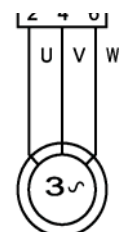
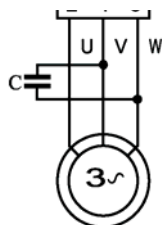
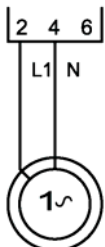
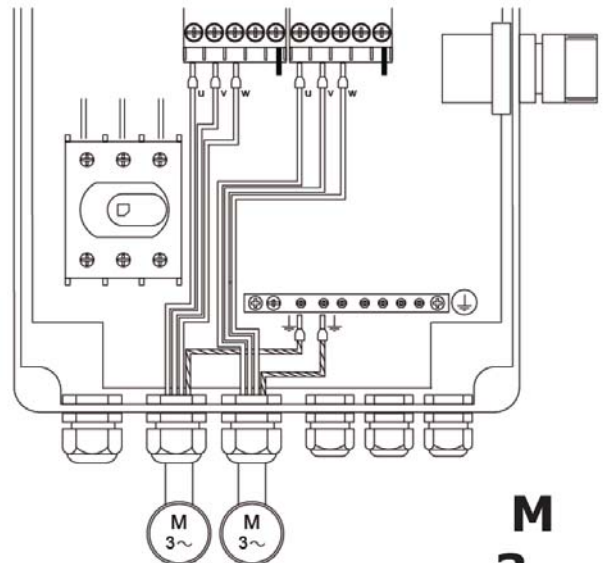
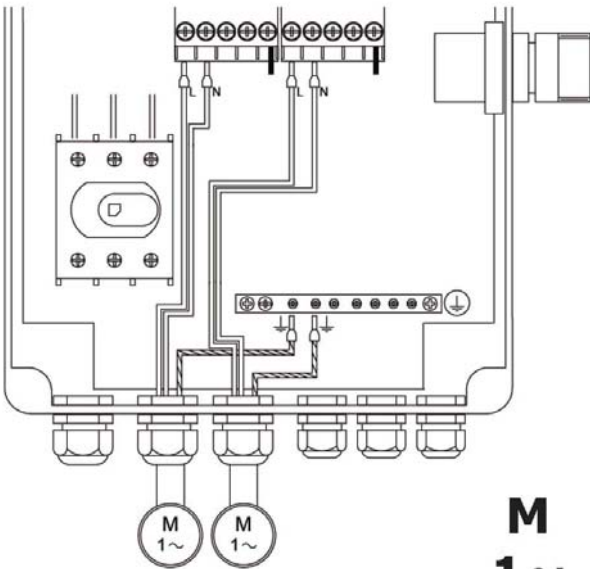
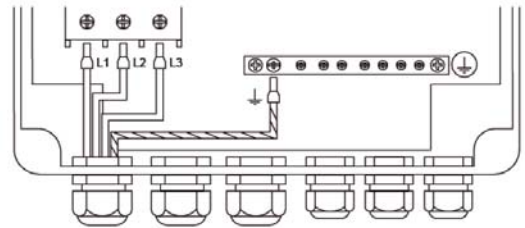
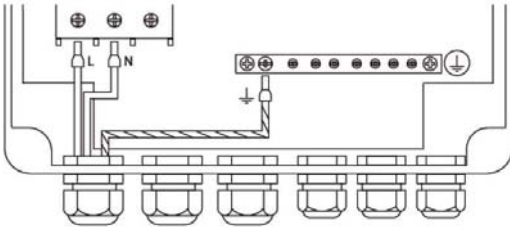
230 VAC



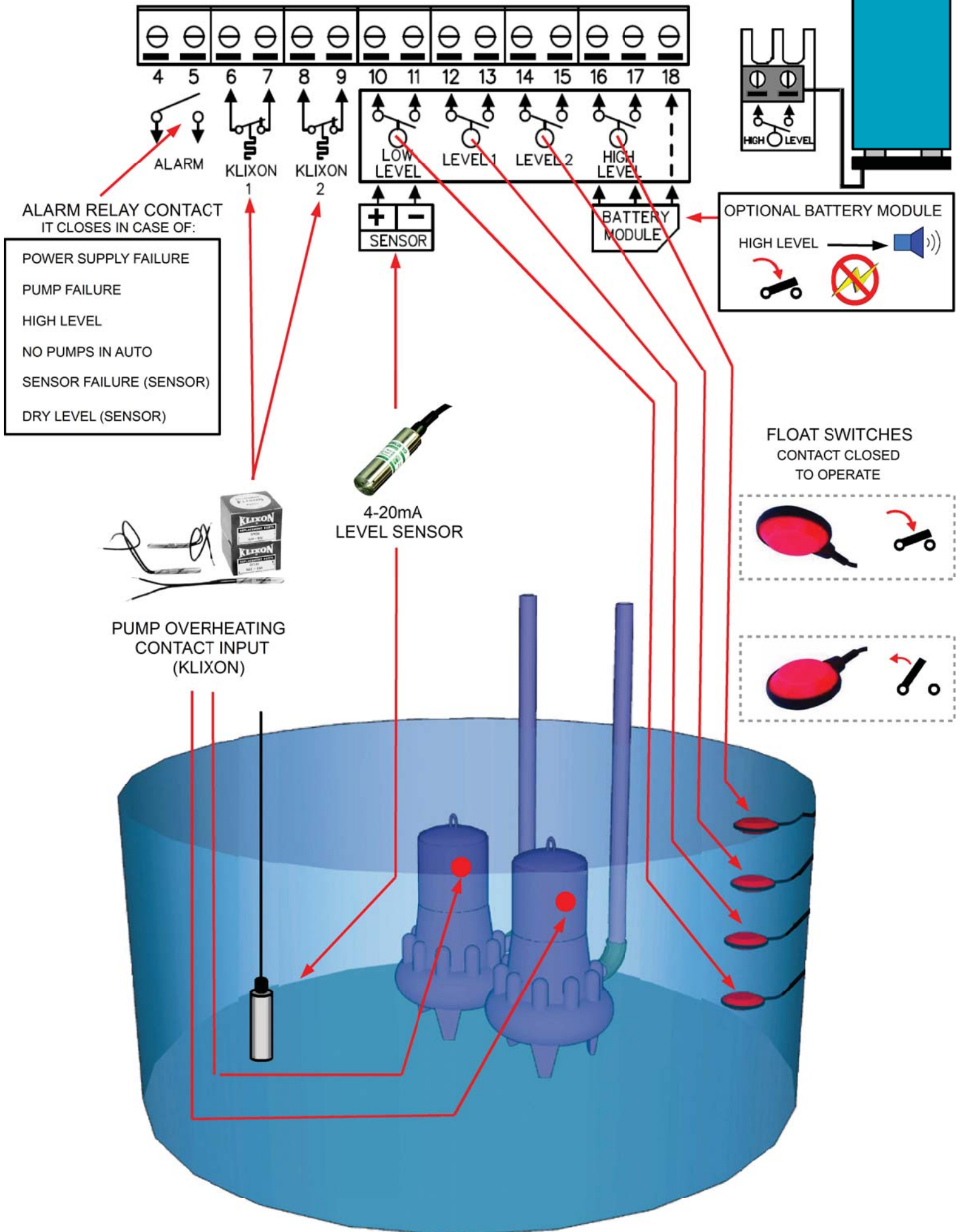
400 VAC



# power connections



# control connections



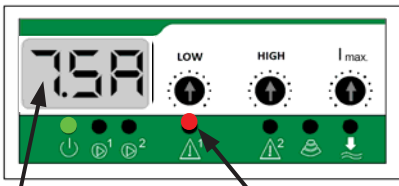
## selectors



**ON**



**CAUTION**  
PUMP NOT  
PROTECTED ON "MAN"  
OPERATION



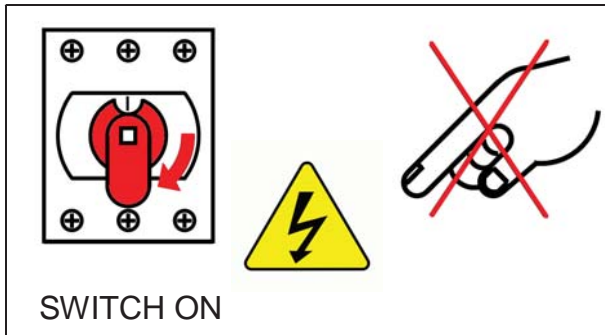
motor current    Flash on manual



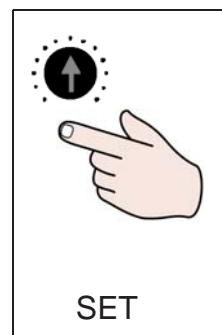
**AUTOMATIC  
MODE**



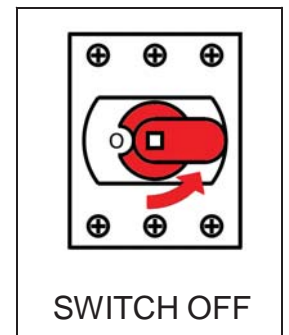
## set-up



SWITCH ON



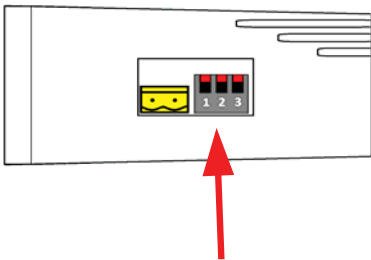
SET



SWITCH OFF

## control mode selection

## SENSOR RANGE AND FLOAT-SWITCH SELECTION

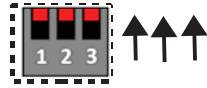


|       |     |            |
|-------|-----|------------|
| 1 2 3 | ↑↑↑ | SENSOR OFF |
| 1 2 3 | ↓↑↑ | 1,0 m      |
| 1 2 3 | ↓↓↑ | 1,5 m      |
| 1 2 3 | ↑↓↑ | 2,0 m      |
| 1 2 3 | ↑↓↓ | 2,5 m      |
| 1 2 3 | ↑↑↓ | 3,0 m      |
| 1 2 3 | ↓↑↓ | 4,0 m      |
| 1 2 3 | ↓↓↓ | 5,0 m      |



( OPTIONAL )  
LEVEL1, LEVEL2 OR HIGH LEVEL

# Float switch operation mode



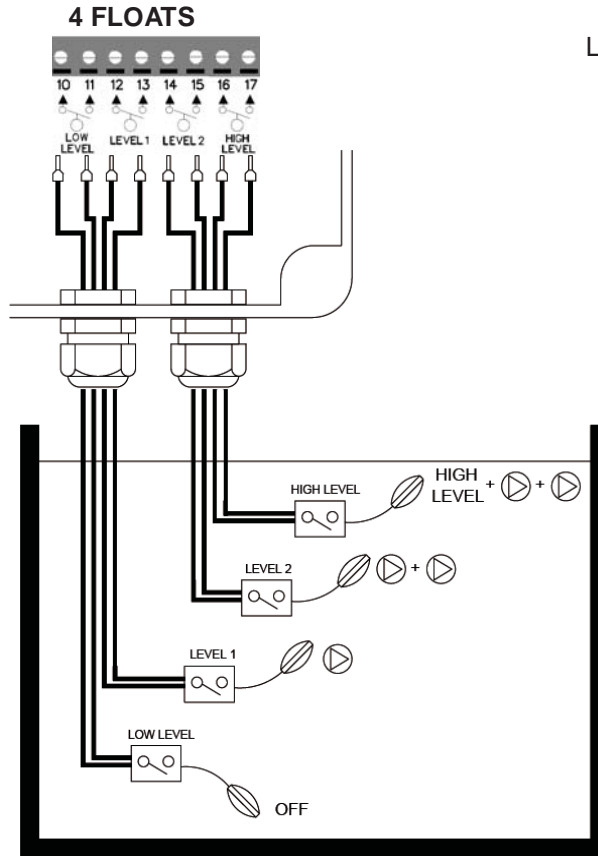
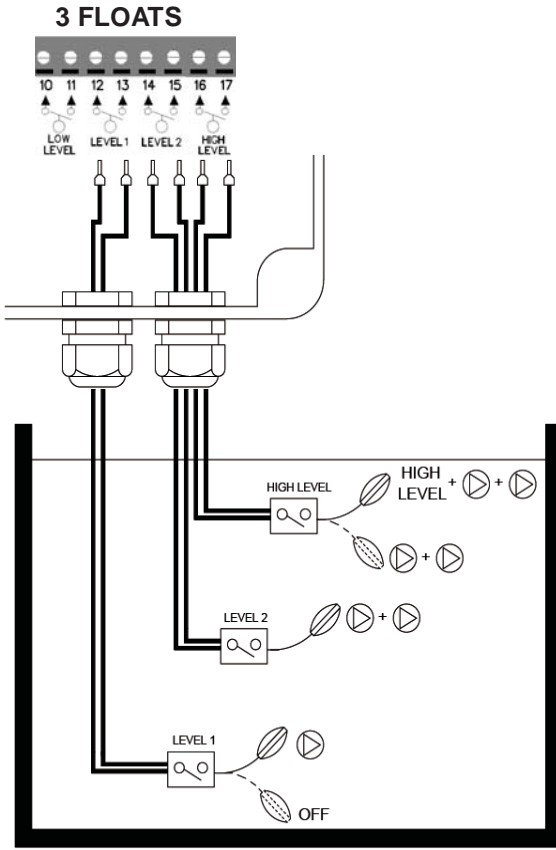
LOW+L1+L2+HIGH **H1 L2**

LOW+L1+L2 **L2**

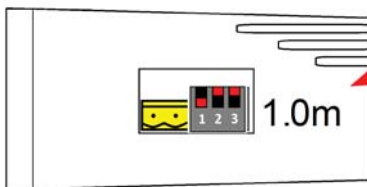
LOW+L1 **L1**

LOW **L**

ALL OFF **- - -**



# Level sensor 4-20mA setting and operation mode



**1** SELECT SENSOR RANGE

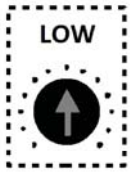
**3** ADJUST **HIGH** LEVEL → **H1**



**4** **L2**

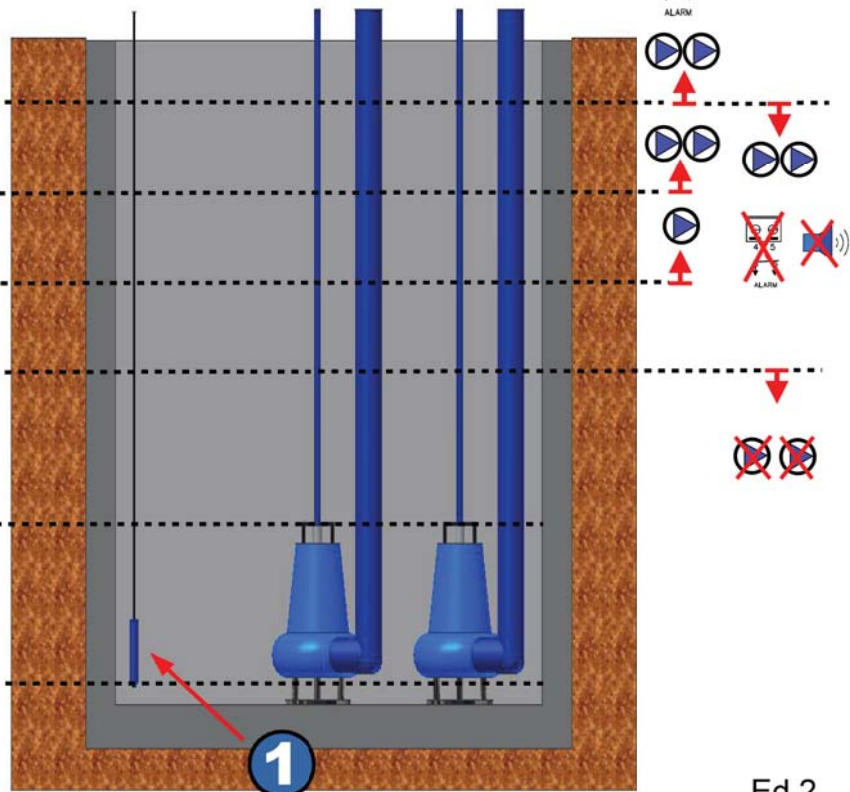
**4** **L1**

**2** ADJUST **LOW** LEVEL → **Lo**



**4** **2-4**

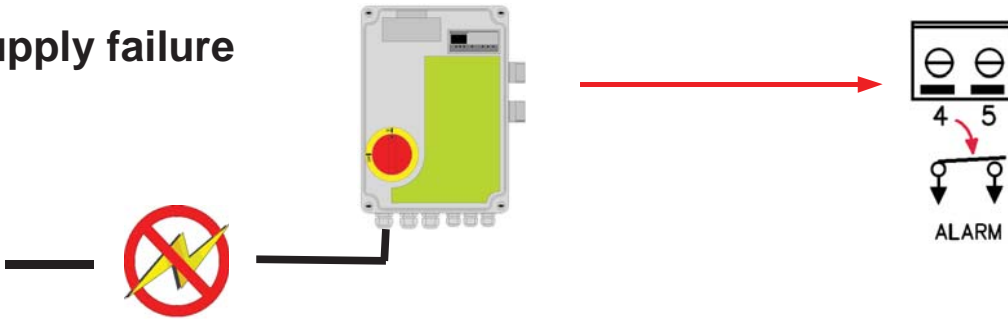
**4** AUTOMATIC SETUP **000**



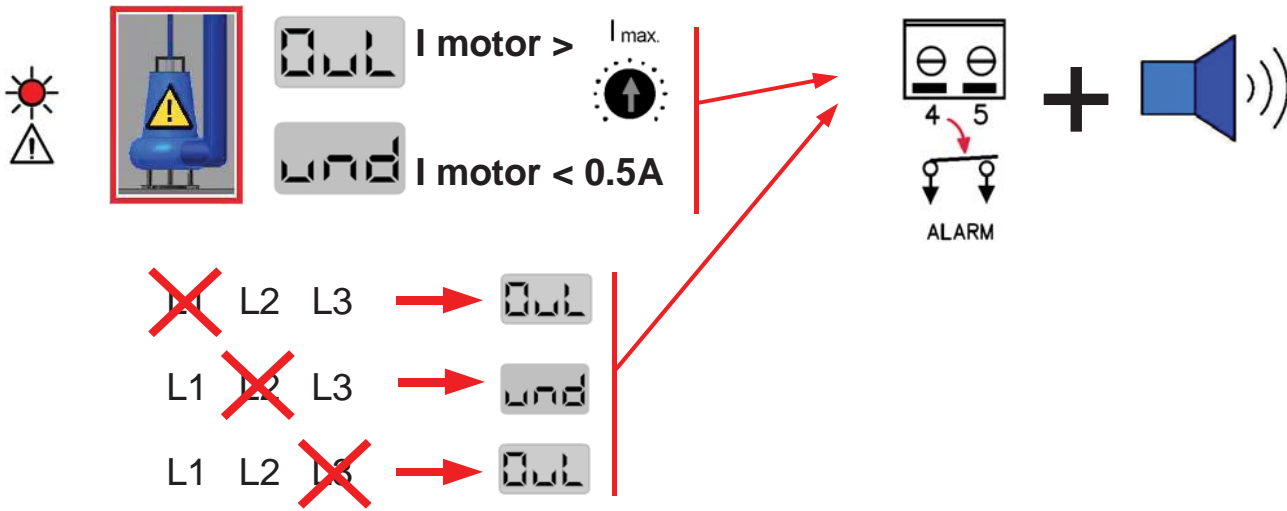


# problem detection

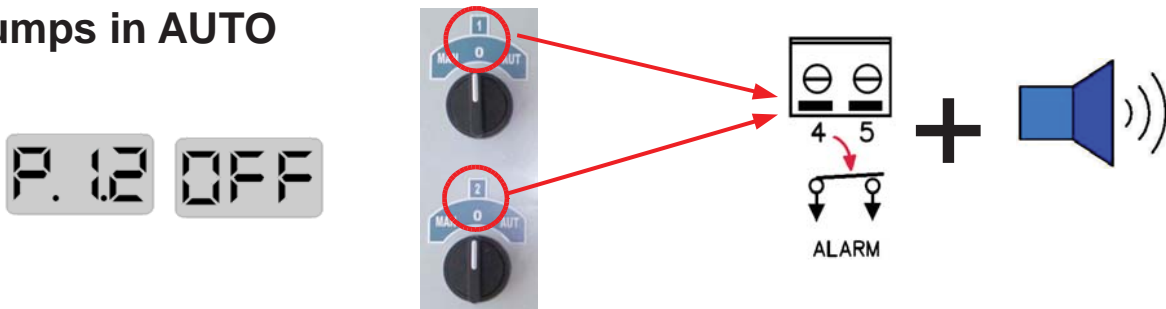
## supply failure



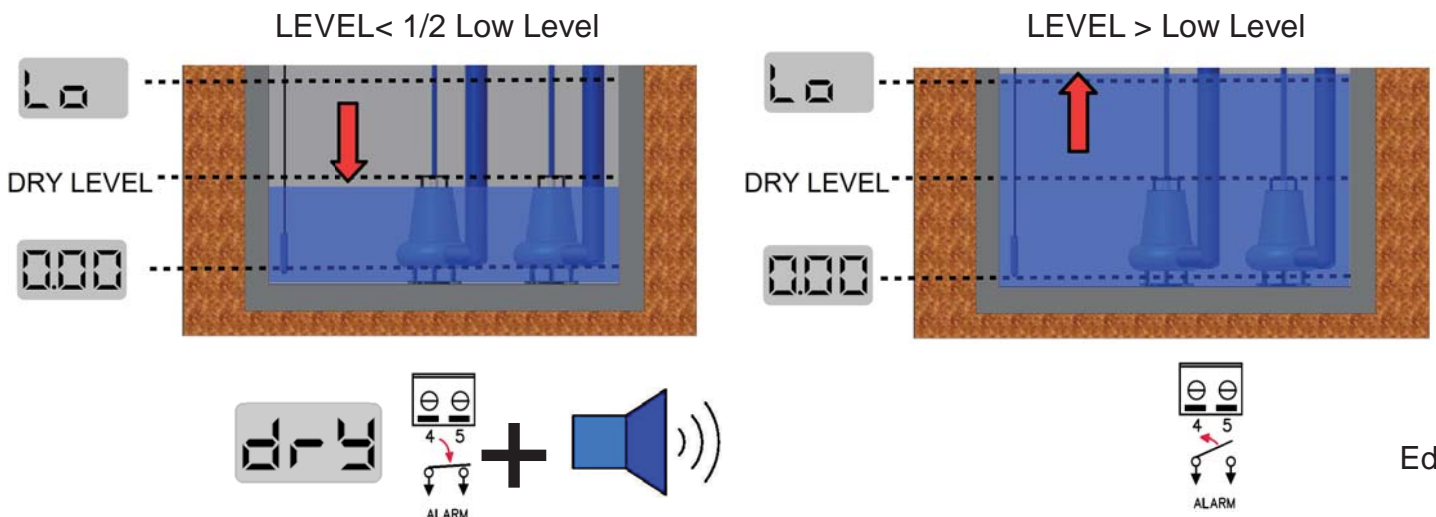
## pump failure



## no pumps in AUTO



## dry level detection (4-20mA level sensor)



## Sensor failure (4-20mA sensor control)

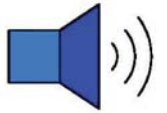
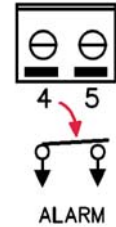


SEn 5.c.

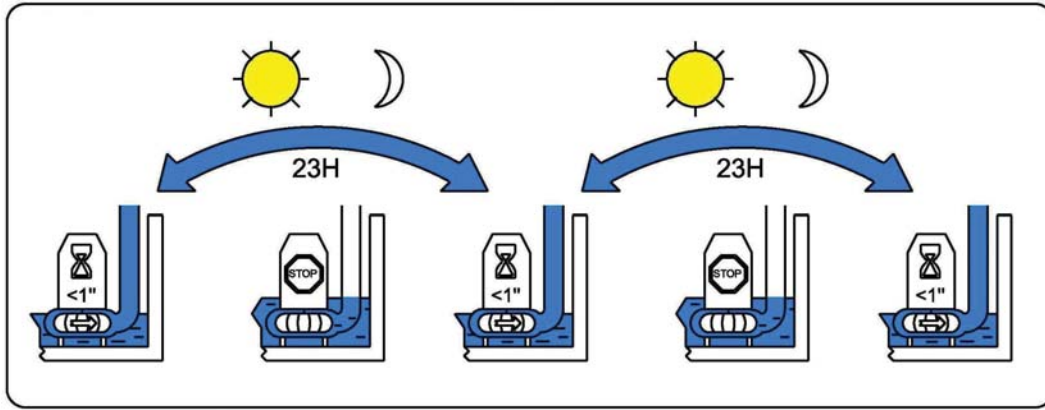
I Sensor > 20mA

SEn 0.c.

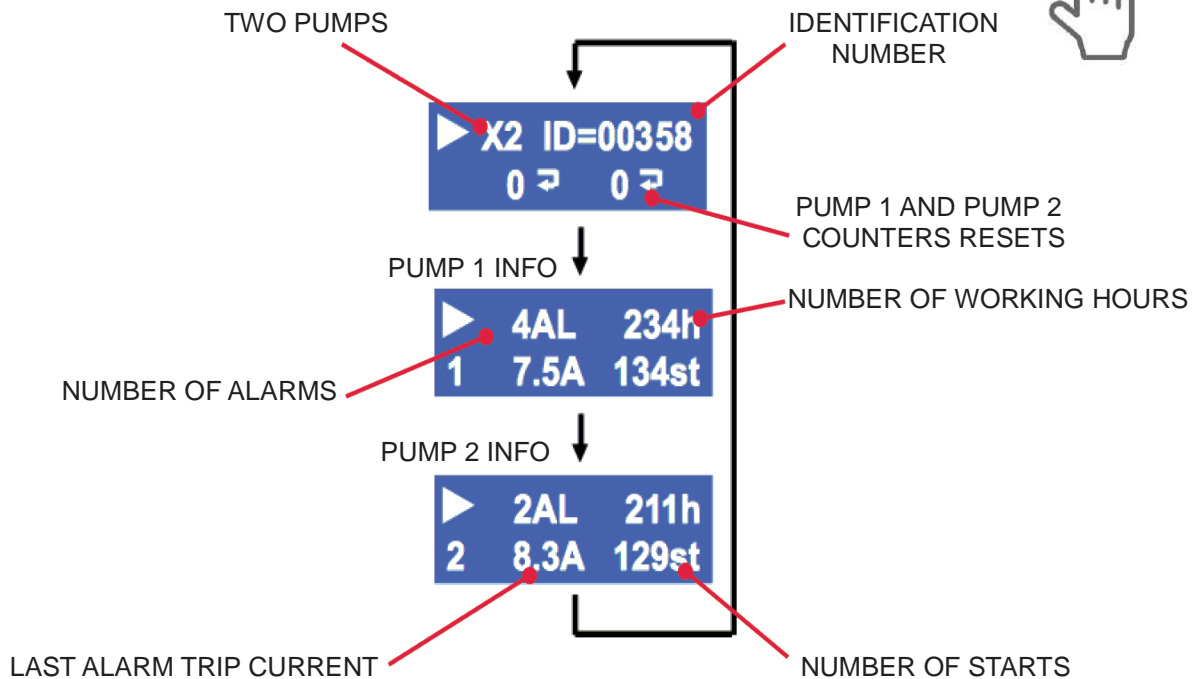
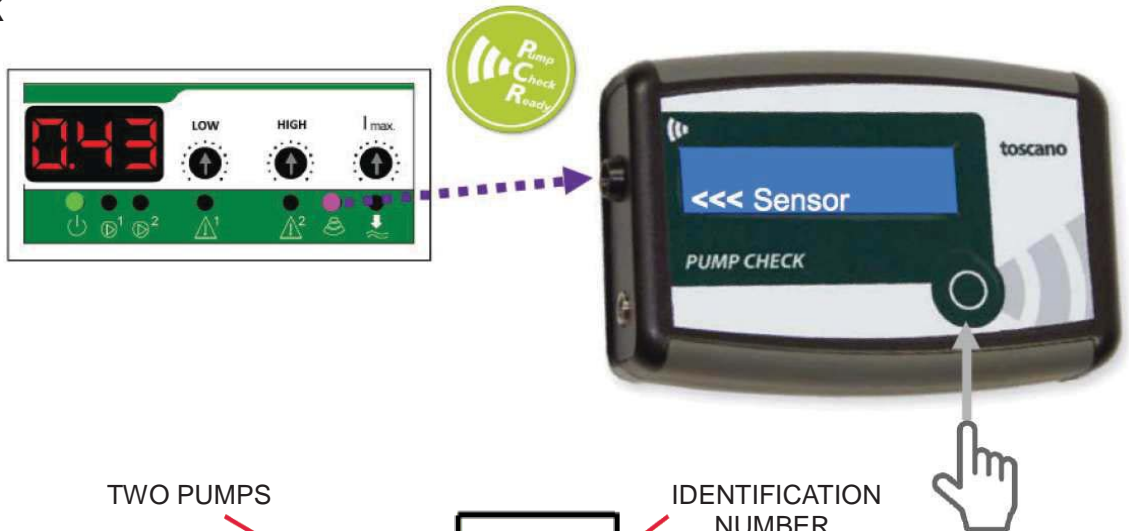
I Sensor < 4mA



## anti-jamming protection system



## pump-check



## other functions

- Pump alternation with delayed start and stop for pumps.
- Automatic pump commutation in case of failure or deactivation of one of them

## technical specifications

|   |   |
|---|---|
| Supply voltage                          | 230V AC I/III or 400V AC III (selectable) -20% +30% 50/60Hz   |
| Pump maximum current                    | 12A-AC3   |
| Overload adjustment (I <sub>max</sub> ) | 0,5 ... 13A (alarm trip in 7s)  |
| Control mode                            | Float switches and/or 4-20mA level sensor   |
| Control inputs voltage                  | 24VDC (Float switches)  |
| Sensor 4-20mA supply voltage            | 24 VDC  |
| Sensor range                            | 1m, 1.5m, 2m, 2.5m, 3m, 4m or 5m (selectable)   |
| Sensor failures detection               | Open circuit and Short circuit  |
| Low level adjustment (Low)              | 10cm.....sensor range   |
| High level adjustment (High)            | Low level + 10cm .....sensor range  |
| Level 2 adjustment                      | Automatic setup 2/3 (High Level - Low level)  |
| Level 1 adjustment                      | Automatic setup 1/3 (High Level - Low level)  |
| Dry Level adjustment                    | Automatic setup 1/2 Low level   |
| Terminal blocks wiring size             | 10mm <sup>2</sup> (power) 4mm <sup>2</sup> (control)  |
| Protections                             | Overload, phase failure and pump overheating (Klixon contacts)  |
| Alarm contact                           | 5A, 250V AC   |
| Alarm contact activation                | Overload, phase failure, sensor failure, High level, dry level, no pumps in AUTO and power supply failure, air error and pressure |
| Acoustic alarm sound level              | 90dB  |
| Recording information(PUMPCHECK)        | Module identification number, counters resets, pumps running hours, pumps starts, pumps alarms and last alarm tripping current.   |
| Size/Weight/IP/Temperature              | 300(heigh)x220(width)x120(deph)/3550g/IP65/-10 +55°C  |

