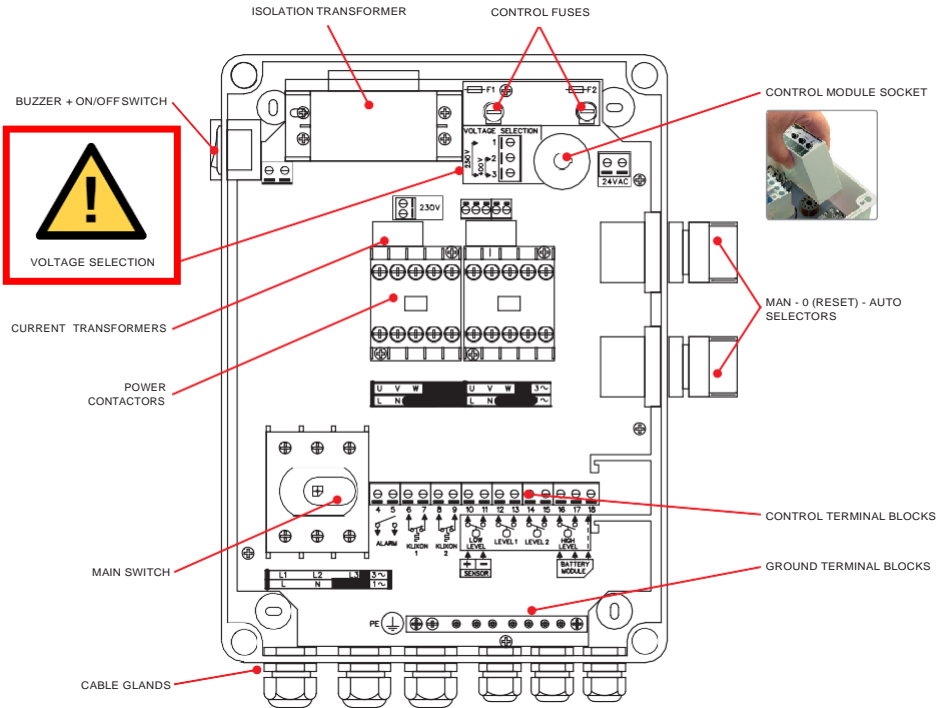


Internal configuration

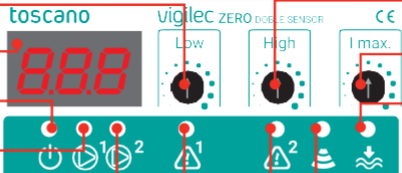


Control module

LOW LEVEL SETTING **(SENSOR ONLY)**

(SENSOR ONLY) HIGH LEVEL SETTING

DISPLAY SCREEN



OVERLOAD SETTING

POWER ON

HIGH LEVEL ALARM

PUMP 1 ON

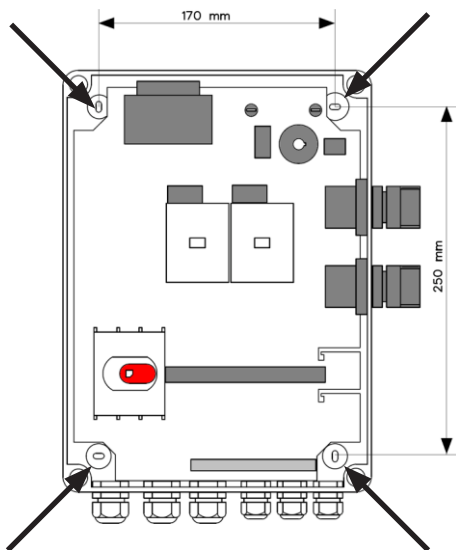
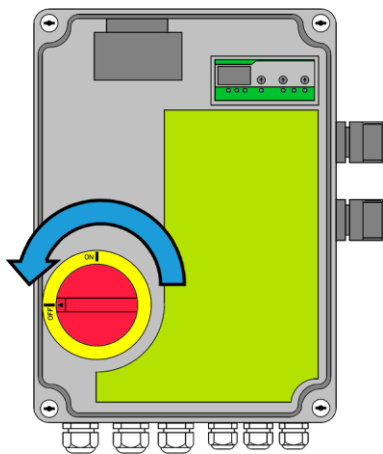
PUMP 2 ON

INFRARED COMMUNICATION

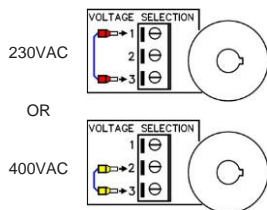
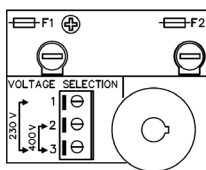
PUMP 1 OVERLOAD / PHASE LOSS

PUMP 2 OVERLOAD / PHASE LOSS

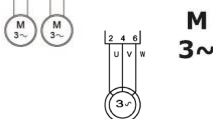
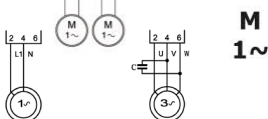
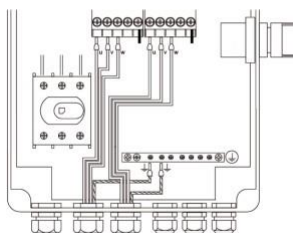
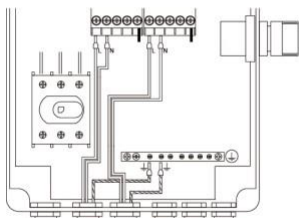
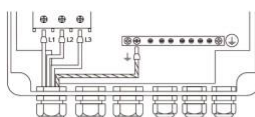
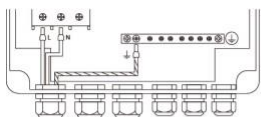
Installation



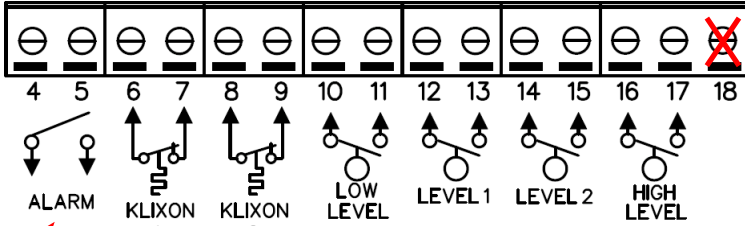
Voltage selection



Power connections



Control connections



Terminal 18 is only suitable for optional modules connection (see page 8)

ALARM RELAY CONTACT, CLOSED IN CASE OF:

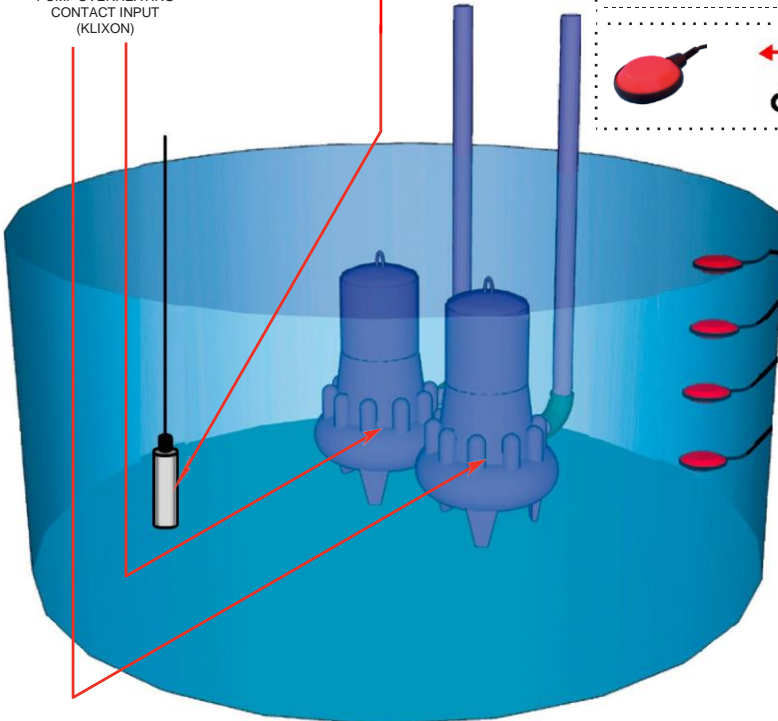
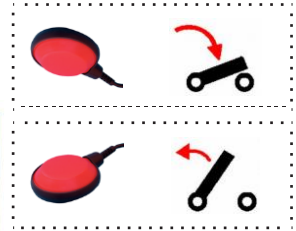
- POWER SUPPLY FAILURE
- PUMP FAILURE
- HIGH LEVEL
- NO PUMPS IN AUTO
- SENSOR FAILURE

The float cable is 3 core, **do not** use the Blue



PUMP OVERHEATING CONTACT INPUT (KLIXON)

FLOAT SWITCHES CLOSED CONTACT TO OPERATE



Selectors



ON

CAUTION
PUMP NOT PROTECTED

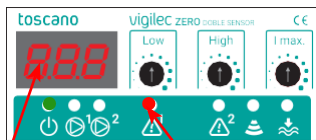


+

**ALARM
RESET**



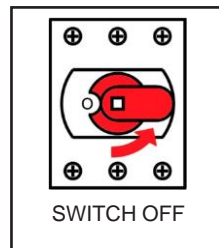
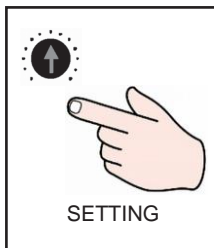
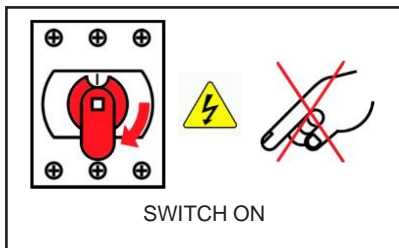
**AUTOMATIC
MODE**



MOTOR CURRENT

FLASHING LED = MAN MODE

Set-up

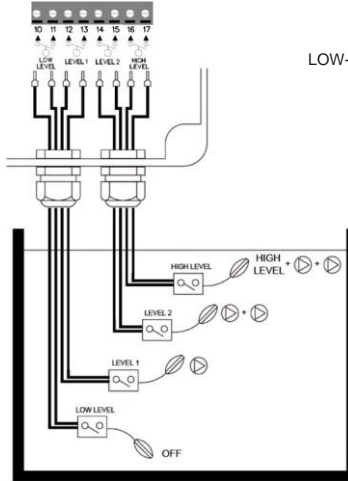
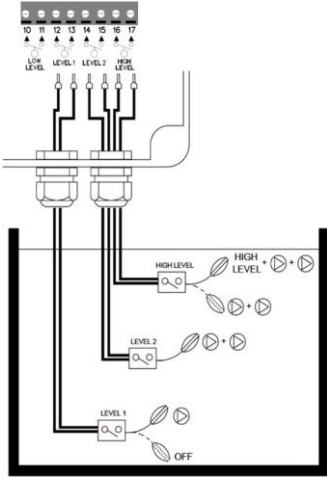


Float switch operation mode



3 FLOAT SWITCHES

4 FLOAT SWITCHES



LOW+L1+L2+HIGH



LOW+L1+L2



LOW+L1



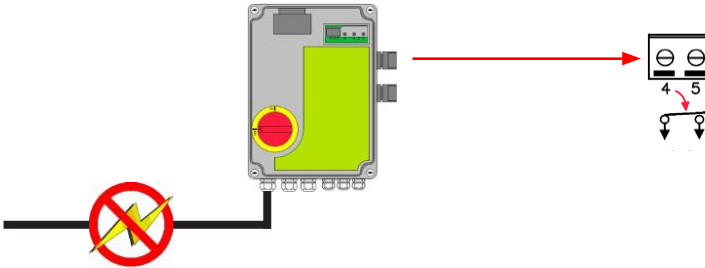
LOW



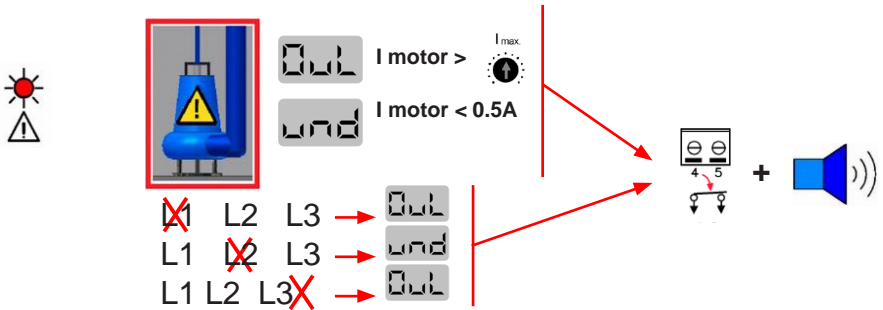
ALL OFF



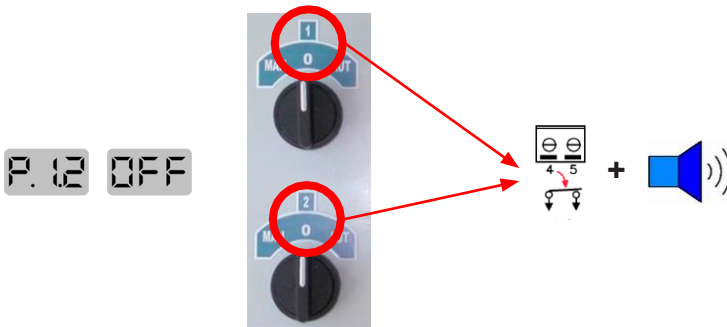
Supply failure



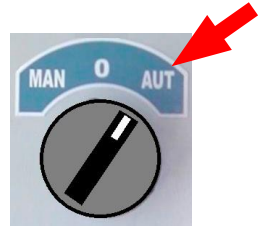
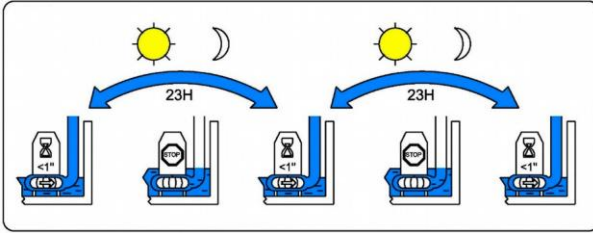
Pump phase failure Alarm



No pumps are in AUTO ALARM



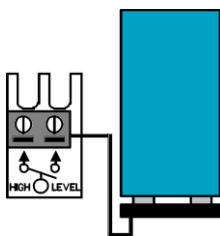
Jammed / Seize impeller preventive system



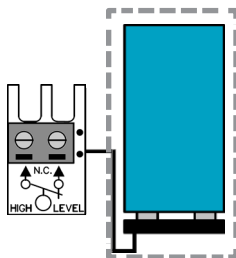
Other functions / additional options

- Pump alternation with delayed start and stop for pumps.
- Automatic pump commutation in case of failure or deactivation of one of them.
- Additional options: main circuit breaker, bimetallic overload relay or phase sequence relay.

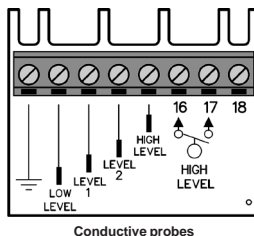
Optional modules (direct installation on control terminal blocks)



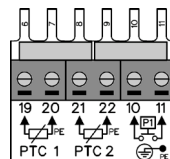
N.O. Battery module



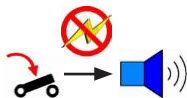
N.C. module
(optional battery)



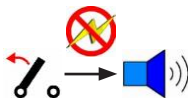
Conductive probes



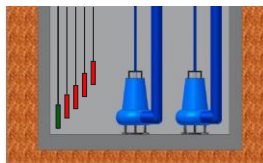
PTC motor protection



HIGH LEVEL



HIGH LEVEL



~~Klixon~~

PTC thermistor



Technical specifications



| | |
|----------------------------------|--|
| Supply voltage | 230Vac I/III or 400Vac III (selectable) -20%...+30% - 50/60Hz |
| Control transformer | 230-400Vac / 24Vac, primary fuse: 0.2A (F1), secondary fuse: 0.8A (F2) |
| Pump current range | 1...12A (V2ZBS) / 5...16A (V2ZBS-E) / 5...22A (V2ZBS-F) - AC3 |
| Overload setting (Imax) | 1.1...13A (V2ZBS) / 5.1...30A (V2ZBS-E/F) / alarm trip in 7 seconds |
| Control mode | Float switches and/or 4-20mA level sensor or conductive probe (+optional module) |
| Control input voltage | 24Vdc (float switches) |
| 4-20mA sensor supply voltage | 24Vdc |
| Sensor range | 1m, 1.5m, 2m, 2.5m, 3m, 4m ou 5m (selectable) |
| Sensor failure detection | Open circuit and short circuit |
| Low level setting | 10cm...sensor range |
| High level setting | Low level + 10cm...sensor range |
| Level 2 setting | Automatic setting: 2/3 (high level - low level) |
| Level 1 setting | Automatic setting: 1/3 (high level - low level) |
| Terminal block wiring size | 10mm ² (power supply) 4mm ² (control) |
| Protections | Overload, phase failure and pump overheating (Klixon contacts) |
| Alarm contact | 5A 250Vac |
| Alarm contact activation | Overload, phase failure, sensor failure, high level, no pumps in AUTO and power supply failure |
| Acoustic alarm | 12Vdc - 90dB |
| Records (PUMP CHECK) | Module identification number, counters resets, pumps running hours, pumps starts, pumps alarms and last alarm tripping current |
| Size / Weight / IP / Temperature | 300 (h) x 220 (w) x 120 (d) mm / 3550g / IP65 / -10°...+55° C |
| Cable gland configuration | 1xM25 (main supply) / 2xM20 (motors) / 6xM16 (controls) |