

INTRODUCTION

The OP Elite Low Level Alarm is used to detect low levels in various chemical containers and give an early audio and visual warning to the users. Chemicals can then be replenished before they run out to ensure consistent and reliable dispensing.

SPECIFICATIONS

- Attaches to main control unit using standard low-voltage wire
- Detects up to ten chemical levels simultaneously
- Gives clear message and lights alarm LED when one or more chemicals need replacing
- Automatically resets low chemical alarm when chemicals are replenished
- Connects to simple float switches with normally-open or normally-closed dry contact switches
- Includes ten individual front-facing LEDs to indicate exactly which chemicals are low
- Includes an audible alarm that can be heard even in a noisy environment
- Can be used with an optional SA-12 remote strobe alarm
- Clearly marked screw terminal connections for each low level sensor

OPTIONAL SA-12 STROBE ALARM

The SA-12 strobe alarm is an audio-visual warning device to alert operators when there is a low chemical supply. When the alarm is activated, the amber strobe will flash brightly and the piezo alarm will sound loudly until the low chemical supply is satisfied.

When using the SA-12 strobe alarm with the OP Elite Low Level Alarm, mount the SA-12 in a location where it will be seen and heard by necessary personnel. Wire the SA-12 to the OP Elite Low Level Alarm per the wiring diagram in this manual.



CAUTION: Wear protective clothing and eyewear when dispensing chemicals or other materials. Observe safety handling instructions (MSDS) of chemical mfrs.



CAUTION: To avoid severe or fatal shock, always disconnect main power when servicing the unit.



CAUTION: When installing any equipment, ensure that all national and local safety, electrical, and plumbing codes are met.

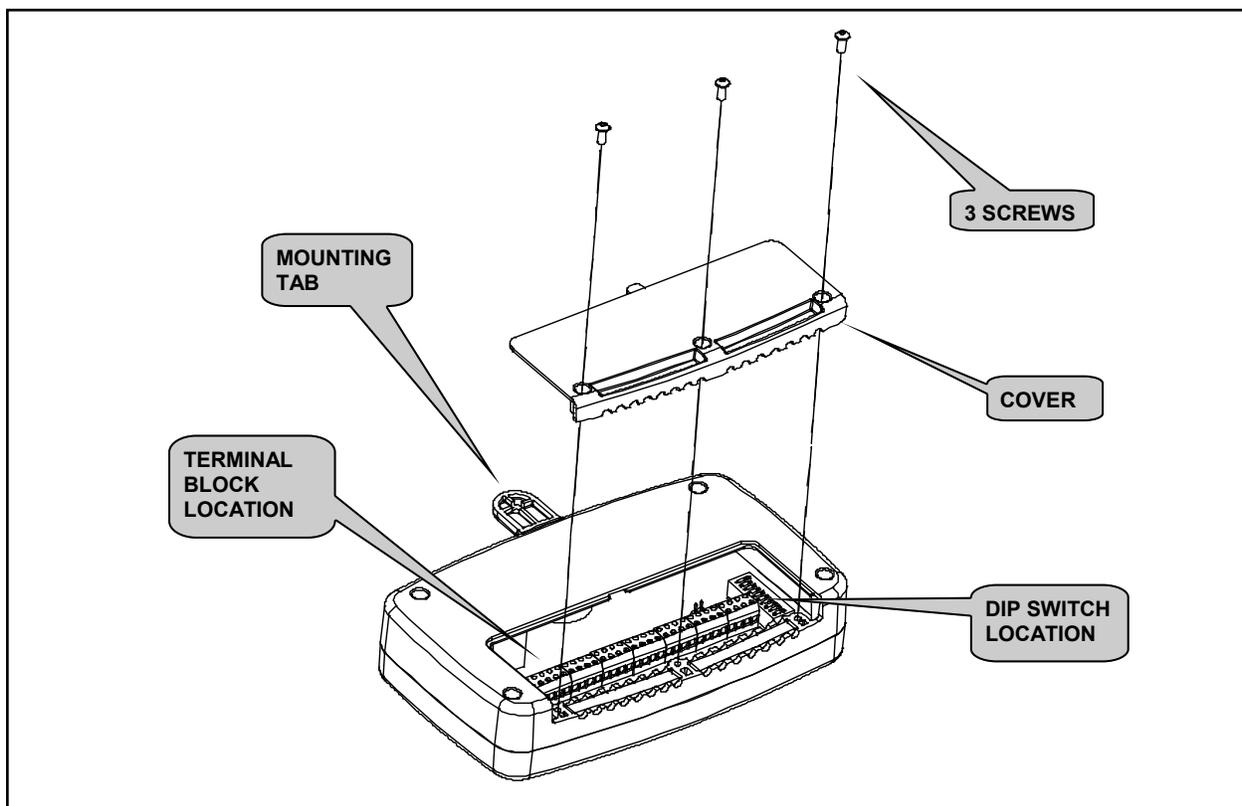
INSTALLATION

CAUTION: Ensure all power is off before installing the OP Elite Low Level Alarm and respective float switches.

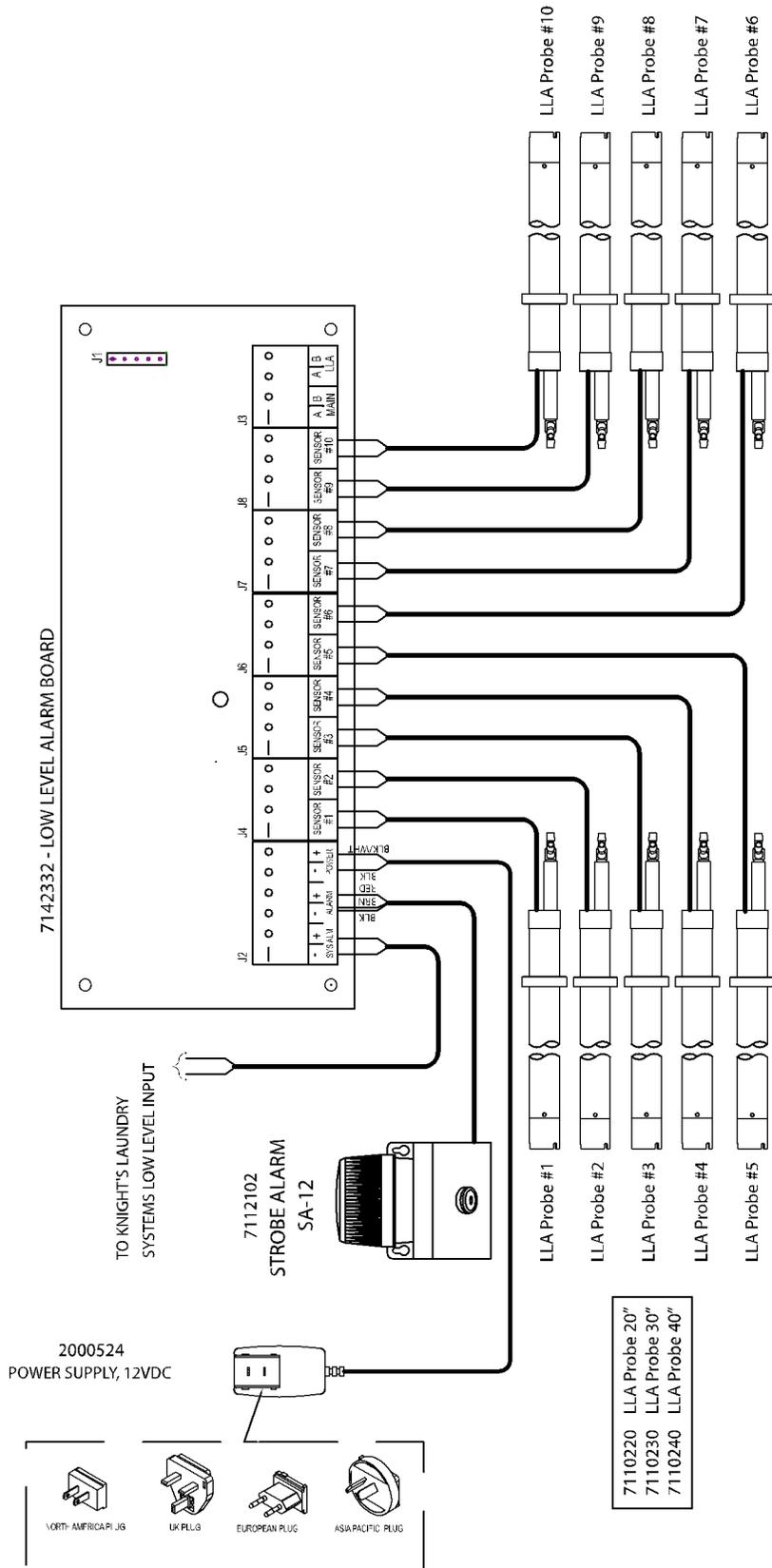
- (1) Remove the 3 screws shown below from the back of the unit and open the cover.
- (2) Locate the terminal block inside the LLA unit and wire to the OP Elite main controller per the wiring diagram in the OP Elite instruction manual.
- (3) Wire float switches to the terminal block in the LLA per the wiring diagram in this manual.
- (4) Locate the DIP switch pack inside the LLA and set each switch appropriately for all float switches used.
- (5) Put the cover back on and secure it in place with the 3 screws.
- (6) Mount the unit to a wall where it will be visible to necessary personnel. The mounting tab on top of the LLA can be used to mount the unit with a single screw. Another option is to mount the unit with dual-sided adhesive strips.
- (7) Plug the transformer into a nearby outlet and turn on power to the main control.
- (8) Test the LLA module by lifting each float switch out of its container to simulate a no chemical condition. Check the front display of the LLA unit to ensure the correct LED is lit.

TESTING NOTES:

- Check the display on the main control if the LLA is connected to a pump unit to ensure it also shows a low level condition.
- If the LLA operates backwards (i.e. alarm sounds with probe in the chemical container but shuts off when lifted out) then change the position of the DIP switch for that probe.



WIRING DIAGRAM



DISCLAIMER

Knight LLC does not accept responsibility for the mishandling, misuse, or non-performance of the described items when used for purposes other than those specified in the instructions. For hazardous materials information consult label, MSDS, or Knight LLC. Knight products are not for use in potentially explosive environments. Any use of our equipment in such an environment is at the risk of the user, Knight does not accept any liability in such circumstances.

WARRANTY

All Knight controls and pump systems are warranted against defects in material and workmanship for a period of ONE year. All electronic control boards have a TWO year warranty. Warranty applies only to the replacement or repair of such parts when returned to factory with a Knight Return Authorization (KRA) number, freight prepaid, and found to be defective upon factory authorized inspection. Bearings and pump seals or rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing, and gaskets are considered expendable and are not covered under warranty. Warranty does not cover liability resulting from performance of this equipment nor the labor to replace this equipment. Product abuse or misuse voids warranty.

FOOTNOTE

The information and specifications included in this publication were in effect at the time of approval for printing. Knight LLC reserves the right, however, to discontinue or change specifications or design at any time without notice and without incurring any obligation whatsoever.

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