

OVERVIEW

When it comes to accurate chemical concentration control of wash water, inductive probes are technologically more advanced than conventional conductive probes. Inductive probes read chemical concentration levels by casting a magnetic field from two charged coils that are encapsulated in polypropylene. These magnetic coils never come in direct contact with corrosive chemicals and hard water minerals. As a result inductive probes provide consistently accurate and reliable chemical concentration control without ever needing to be serviced; unlike conductive probes that need constant maintenance and probe replacement.

- Temperature range for the probe is 0.0-100.0 C
- Conductivity range 0-20.00 mS at 0.1 uS resolution

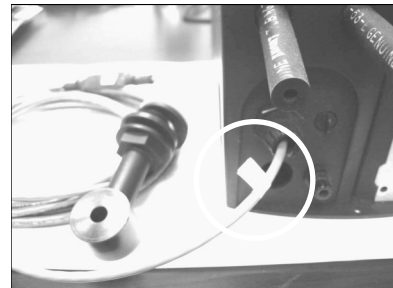
INSTALLATION

The graphics to the right are provided as examples to assist in the installation process. Your application may look different than the examples.

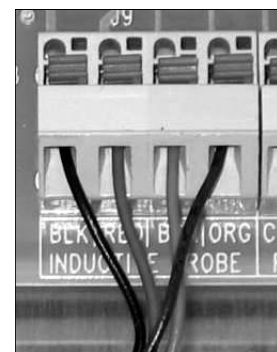
- (1) Shut off all power to the dispenser.
- (2) The probe should be mounted in the washer tank as shown in Example 1 with the hole oriented vertically (this is a top view). First slide one rubber washer over the wire and onto the threaded mounting stud. Then feed the wire through the mounting hole from inside the tank to the outside. Lastly, slide the second rubber washer and locknut over the wire and tighten the nut from the outside of the tank.
- (3) After the probe has been mounted, feed the wire through a strain relief on the bottom of the dispenser as shown in Example 2 (circled).
- (4) Pull just enough wire up inside the dispenser to create slack, then attach the four wires to the terminals on the circuit board for inductive probe as shown in Example 3. The wires must match the corresponding color legend shown below the terminals (black / red / brown / orange).
- (5) Turn power on to the dispenser and observe the following:
UMP Digital: If the dispenser sounds the alarm with inductive mode selected, this indicates that the inductive probe is not recognized correctly. Check for loose or shorted wiring connections.
UniTech: A few seconds after power-up, the display window should indicate that it has found and recognized the inductive probe.
- (6) The dispenser is ready to operate and will show a concentration reading only when the detergent signal is active.



Example 1



Example 2



Example 3



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.

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.