

Technical Bulletin

Re: “Light Touch” coin meter

Description: CustomKraft “Light Touch” coin meter with piezoelectric switch technology incorporates an embedded light emitting diode (LED) indicator within each individual touch control button for reliable and durable switching that is field repairable.

Operation

The “Light Touch” coin meter will scroll vertically through LED indicator lights in the dormant phase (while the bay timer is not activated). The customer may select the desired function by touching the appropriate button adjacent to the color-coded menu selection. Once the bay timer is activated, the bay will start on the selected function. If no function is selected, the bay will automatically start in the STOP position. The corresponding LED indicates function and remains lit until another function is selected or vending time expires.

“Light Touch” coin meter unit includes:

- Twelve (12) individual plug-in piezoelectric switches for easy on-site repair.
- Embedded LED indicator in each function for clear and simple operation.
- Sensorton[®] electronic coin acceptance (compatible with all coin acceptors).
- Reliable Dixmor[®] LED7 bilingual digital timer with last minute alert horn.
- Full meter face Lexan[®] decal for attractive durability.
- Custom microprocessor logic controller.

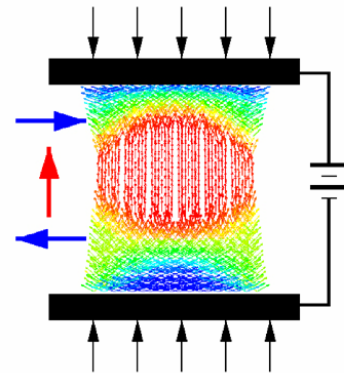


Coin meter options:

- Available for the dual feed bay meter box to accept bills and/or coins.
- Custom microprocessor designed to accept “plug and play” operating cord.
- Unit will operate with any momentary “on” switch.
- Programs with Sony[®] universal remote controller.
- Lighted menu board with selected function indicator.
- Custom microprocessor equipped with extra inputs for radio frequency (RF) transmitter/receiver.

Piezoelectric Technology

By applying pressure or mechanical stress on certain natural non-symmetrical crystals an electric charge is produced in direct proportion to the pressure. Also, if the same crystal is subjected to an electric field, the crystals expand or contract in direct proportion to the electric field. This piezoelectric effect serves as an extremely durable electromechanical transducer, converting mechanical energy into electrical energy.



Graphic illustration of piezoelectric switch.

Piezoelectric switches have a long service life and contain no mechanical parts. They are ideal for harsh environments, able to withstand severe impacts and are even seawater resistant. The switches are tested to military (MIL) standards and have United States and Canadian Electric (CE) certification.

Instructions for programming Piezoelectric IC board

1. Using a Sony universal remote, press “Power” to enter the programming mode (see LED indicator on board).
2. Programming of each output for motor relay, is done with the volume up and down buttons. Note: LED will light adjacent to each switch being programmed. Motor relay outputs will be indicated by the A,B,C and D outputs at the bottom of the board.
3. To toggle or change between Piez switches being programmed, use the channel up and down buttons.
4. The top button (Piez 1) is Stop and will have no output.
5. After the final output, the next channel down will light all Piez LEDs and determine timed delay for motor relay output. Note: This will allow programming for a variable frequency drive (VFD) inverter or a timed delay for motor relay coil. For timed delay A-1second, B-2 seconds, C-4 seconds and D-8 seconds, all settings are cumulative (i.e. A and C=5 second delay).
6. Press the “Power” button to lock programmed settings.

Piezo Board Wiring

