



417 Wards Corner Rd., Loveland, OH 45140

## **BASIC 4 CONTROLLER**

### **INTRODUCTION**

The BASIC 4 SYSTEM is a versatile low cost control system that will allow the user to control many environmental industrial applications and avoid expensive time consuming process and machine breakdowns. The BASIC 4 SYSTEM can be used in Green Houses, Poultry Operations, Swine Operations, Dairy Farms, Cattle Operations, Grain Storage, Feed Mills, Chemical Industry, Steel Industry, Manufacturing Facilities, Bakeries, Water Treatment Facilities, Slurries, The Mining Industry, and many other industrial applications. The BASIC 4 SYSTEM can also be used to monitor and control liquids in vats or tanks used for mixing operations. It is also used to control start-up sump pumps, the positioning of doors, gates cables, machines and etc.

### **FEATURES**

- The BASIC 4 SYSTEM is housed in a fiberglass NEMA 4X rated enclosure with UL and CSA listing. The enclosure has a window that allows the user to monitor the status indicators. The housing is also comprised of all stainless steel hardware for use in the harshest conditions.
- The BASIC 4 SYSTEM has relay outputs for each sensor input. Contacts are rated 3 AMPS @ 115VAC/50-60HZ.
- The system can be mounted with the users own existing enclosures.
- Input sensors are low voltage and current.
- Time delay of 1.5 seconds for avoiding false indications.

## OPERATION APPLICATIONS

Each of the sensor outputs have a 1.5 second delay controlled by a dip switch that the user can select to use a “Dampen” sensor operation. This will aid in the prevention of “False” trips due to non-essential or accidental sensor situations.

- **CONTROL TEMPERATURE**

Using the HS series Temperature Sensors with the BASIC 4 SYSTEM the user can perform the following:

- Turn fans **ON** and **OFF**.
- Alert specified Over and Under temperatures.
- Raise and Lower temperature curtains in poultry-live stock - swine operations.
- Detect extreme temperatures on motors, machinery and etc.

- **POSITION CONTROL**

Using the PS series Proximity Switches with the BASIC 4 SYSTEM the user can perform the following:

- Open / Close silo gates.
- Open / Close grain chutes.
- Locate position of machines.

- **LIQUID LEVEL CONTROL**

Using the LS series Level Controls with the BASIC 4 SYSTEM the user can perform the following:

- Detect specified HIGH or LOW liquid levels in vats and tanks.

- **TILT SWITCH CONTROL**

Using the TS series Tilt Switches with the BASIC 4 SYSTEM the user can perform the following:

- Detect overloading of conveyors.
- Detect blockage in spouting and etc.

- CPU ELECTRONIC CONTROLLED HOUSING
- 115VAC / 1 AMP (MAX.) /50/60HZ INPUT VOLTAGE
- NEMA 4X Fiberglass Enclosure
  - UL and CSA rating.
  - Non-Metallic Stainless Steel hinges with latch and screws.
  - Water tight seal.
  - Mounting hardware for horizontal or vertical installations included.
  - Suited for corrosive environments (both indoors or outdoors).
- VIEWING WINDOW
  - Used to monitor status indicators.
- CONTROLLED C.P.U. P.C. BOARD
  - Four (4) sensor input.
  - Status Indicators (Open/Closed for each sensor).
  - Each input Sensor has relay output for controlling processes.
  - Each Sensor can be used with a “Damping” (de-bounce) effect of ON or OFF. (Time Delay located on dip switch of P.C.B.)
- SENSORS
  - Can be used with any of the many N/C Sensors manufactured by MAXI-TRONIC or any N/C dry contact switch configuration.
  - **NOTE: N/O systems available upon request.**
  - VOLTAGE - Closed - no voltage  
- Open - 6 VDC
  - SENSOR WIRING – Any copper 18-22 AWG up to 1,000 Foot  
16-18 AWG up to 5,000 Foot
  - SENSOR WIRING CAN BE RUN IN WITH HIGH VOLTAGE.

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