

### WINDOW AUTOMATION SYSTEM SPECIFICATIONS

- A. **MOTORIZED ACTUATORS (P/N'S 1992 / 2081 / 2082 / 2154) WITH CONTROL PANELS ARE SUPPLIED BY CLEARLINE INC, NORTH WALES, PA (215-699-9292). ACTUATORS REQUIRE 24 VDC VIA STEP DOWN POWER SUPPLY 115 VAC TO 24 VDC.**
- B. **CLEARLINE INC. SHALL SUPPLY FULLY DETAILED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND DELIVERY OF MATERIAL.**
- C. **ONE ELECTRICALLY OPERATED ACTUATOR IS REQUIRED PER OPERABLE WINDOW AND IS USED TO OPEN AND CLOSE WINDOWS. WINDOW SIZE WILL DETERMINE THE NUMBER OF PUSH POINTS PER INDIVIDUAL WINDOW. CHAIN LENGTH TO BE DETERMINED BY WINDOW SIZE AND/OR LIMITER.**
- D. **TO FACILITATE INSTALLATION AND REDUCE INSTALLATION COSTS, IT SHALL BE THE RESPONSIBILITY OF THE WINDOW INSTALLER TO PROPERLY PREPARE THE OPERABLE WINDOWS TO ACCEPT THE ACTUATORS. WINDOW PREPARATION DETAILS WILL BE SHOWN ON THE CLEARLINE SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS THAT ARE PROVIDED AT TIME OF DELIVERY. THE OPERABLE WINDOWS SHOULD FUNCTION WITH EASE. FINGERTIP OPERATION IS REQUIRED - LOOSE RIVET HINGES ARE RECOMMENDED.**
- E. **CONTROL PANELS SHALL CONSIST OF A POWER SUPPLY AND RELAY BOARD (OR BOARDS) IN A NEMA TYPE 1 (SCREW COVER) JUNCTION BOX TO ACCOMMODATE THE NUMBER OF ACTUATORS AND GROUPINGS PER LOCATION.**
- F. **ACTUATORS CAN BE PROVIDED IN SUPPLIER'S STANDARD COLORS. SPECIAL COLORS MAY BE AVAILABLE DEPENDING ON ACTUATOR MODEL.**
- G. **SYSTEM CAN INCLUDE THE FOLLOWING:**
  - 1. **ACTUATORS**
  - 2. **SWITCHES, KEY OR ROCKER**
  - 3. **SCREEN ANGLES (COLOR MATCHED TO PRODUCT) WITH CHAIN PORTAL**
  - 4. **CONTROL PANEL**
    - **OPTIONS:**
      - a. **RAIN SENSOR INPUT ... RAIN SENSOR BY OTHERS**
      - b. **COMMUNICATION INTERFACE ... STATUS/FEEDBACK FOR OPEN & CLOSE POSITIONS AND/OR INDIVIDUAL WINDOW OPERATION**

**NOT INCLUDED: INSTALLATION, FIELD WIRING, SWITCH BOXES, ELECTRICAL CONDUIT, JUNCTION BOXES OR WIRE CONTAINMENT.**

**NOTE: PROVISIONS FOR PROPER FIELD WIRING (WIRE RUN DISTANCE AND GAUGE) MUST BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.**

# WARRANTY

*Clearline warrants its window control components against defective workmanship (but not against damage caused by accident, corrosion or abuse after such shipment) only when such products are used in connection with equipment, the specifications of which have been approved by Clearline Inc. As the sole and exclusive remedy under this warranty, Clearline Inc. will, at its option, repair or replace without charge any of its products discovered to be defective within a **THREE YEAR** period from date of shipment. Clearline Inc. must be notified in writing within fourteen days of discovery of such defect and the original product returned to Clearline Inc. for examination, to determine if such defect has not been caused by abuse or accident following shipment. Clearline Inc. shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the window control components.*

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