

**SUPPLEMENTAL INFORMATION FOR CONTROLS & ACCESSORIES  
USED WITH NEMA 7/9 RATED “EXPLOSION PROOF” MOTOR OPERATORS  
US GEAR MODELS SHN79, FHN79, FSN79**

Refer to the installation instructions provided with the above motor operators for complete information.

1. **Standard NEMA 1 (or 4 or 4X) rated wall mount open-close-stop controls (3-button or key station) are allowed to be used** with the above N79 operators in hazardous areas.
  - a. Control station(s) must be connected to the intrinsic safe board (1) as shown in the instructions and as noted below. *(Check instructions carefully – control station wiring is different for N79 operators than it is for standard operators.)*
  - b. It must be located so that it can be connected to the operator with no more than a 100 ft. length of 18AWG wires.
  - c. EMT conduit and fittings may be used.
2. **As an alternative, compatible NEMA 7/9 rated control stations may be used** and connected to the terminal board (CN2) as shown in the instructions using rigid conduit and fittings via NPT connections in the control panel enclosure as required by code.
3. **Other types of compatible control stations may be used when located outside of the hazardous area** when allowed by the authority having jurisdiction and connected to the operator as shown in the instructions and as required by code.
4. **If control stations are not wired for constant pressure close, or not located within line of sight of the door, a monitored sensing edge must be installed** on the bottom of the door. Lawrence A2530L-M (2530TTLL) sensing edges are allowed to be used with the above N79 operators in hazardous areas.
  - a. The edge must be connected to the intrinsic safe board (1) as shown in the instructions and as noted below.
  - b. It must be connected to an 18AWG coil cord inside of a metallic junction box on the bottom bar, going to a metallic junction box at mid-height on the wall.
  - c. 18AWG wires must be used to connect from the junction box at mid-height on the wall to the operator.
  - d. EMT conduit and fittings may be used.
5. **In addition to a 2530L-M sensing edge, compatible NEMA 7/9 rated photo eyes (NO device) may be used as a secondary non-monitored sensing device** and connected to the terminal board (CN2) as shown in the instructions using rigid conduit and fittings via NPT connections in the control panel enclosure as required by code.
6. **Controls and accessories with batteries are not allowed to be used** with NEMA 7/9 operators. Examples of these devices are a wireless keypad, wireless sensing edge transmitter/receiver, and radio control transmitter/receiver.
7. **Standard alarm releases (AR-C, AR-D, AR-D2) cannot be used** with NEMA 7/9 fire door operators. When a fire door operator must be connected to a detector or alarm, or Auto-Reset functions are required, an FSN79 operator should be used (unless an AR-D or AR-D2 can be located outside of the hazardous area and it is practical to route the fusible link cable to the release).