EGS Electrical Group

Appleton

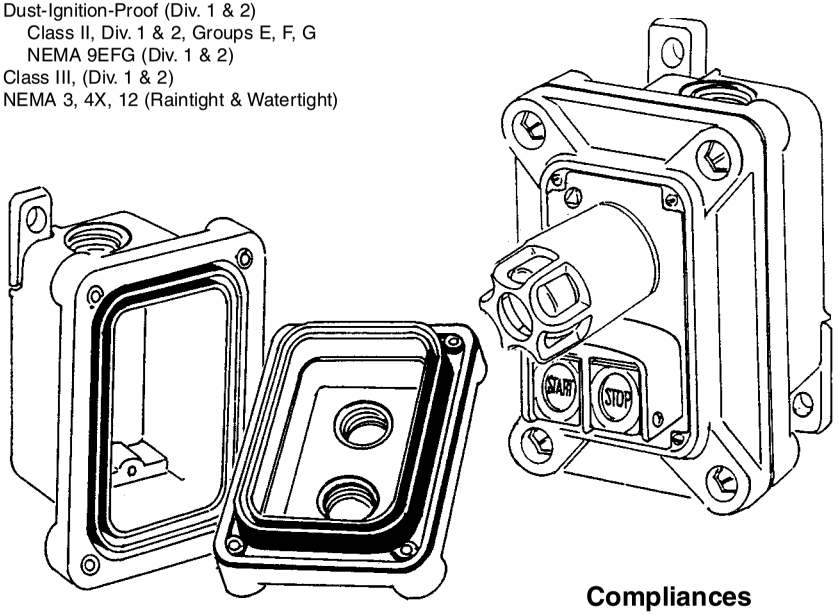
INSTRUCTION SHEET 501490

Installation and Maintenance Instructions
N2D and N2DC Series
Control Station Enclosures

N2 Series (Factory Sealed)
Explosion-Proof (Div. 2)
- Class 1, Div. 2, Groups B, C, D
- NEMA 7BCD (Div. 2)

Dust-Ignition-Proof (Div. 1 & 2)
- Class II, Div. 1 & 2, Groups E, F, G
- NEMA 9EFG (Div. 1 & 2)

Class III, (Div. 1 & 2)
NEMA 3, 4X, 12 (Raintight & Watertight)



Compliances
- UL Standard 698.

Applications

N2D and N2DC Series Pushbutton and Selector Switches are used in conjunction with contactors or magnetic starters for remote control of motors. They provide circuit control and/or selection. Pilot lights provide visual assurance that an electrical function is being performed at a remote or local location. They are suitable for use in Class I, Division 2, Groups B, C and D; Class II, Groups E, F and G; Class III; NEMA 3, 4x, 12, 7BCD (Division 2) and 12 hazardous (classified) areas as defined by the National Electrical Code, as well as in damp or corrosive locations indoors or outdoors.

Instruction for Installation N2D Pushbutton and Selector Switch Unilets

WARNING
Make sure that electrical power is off before starting installation or maintenance.

1. Loosen cover screws then carefully lift off the cover and set it aside to prevent damage to gasket and control devices. Do not remove control devices from cover.

NOTE: *For field installation of control devices, refer to instruction sheet Dwg. No. 501475.*

2. Select a suitable mounting location that will provide strength and rigidity for supporting all contained wiring and control. Install conduit in the entrance hubs of the enclosure securely with a 600 in-lb torque. When using 3/4" conduit, remove and discard 3/4" to 1/2" reducer. Use a sealing material around conduit in outer part of hub to provide complete corrosion protection.

3. *Bonding and grounding requirements:* The National Electrical Code requires that when more than one conduit enters the enclosure ground continuity between conduits must be maintained through proper grounding. Appleton Type N2DC (feed thru hub) are supplied with factory installed bonding wire connected to each metallic conduit entry. Type N2D (dead end) are supplied with a green colored grounding screw.

If a separate grounding conductor is used, it must be connected to the conduit bonding system using the proper wire size and types as required by the NEC and any other applicable codes.

4. Pull the necessary control wires and make the proper electrical connections that will provide the desired control function of the control device.

Switch units used for the pushbutton stations or selector switch are marked "N.O." and "N.C." to indicate normally open or normally closed contacts of switch. Pilot lights are furnished with pigtail leads for field wiring by use of wire nuts.

CAUTION: *Make sure cover gasket and body surfaces are free of any foreign substances before assembling cover to body.*

Place cover on body and securely tighten screws. Power can now be turned ON, as the assembly installation is now completed.

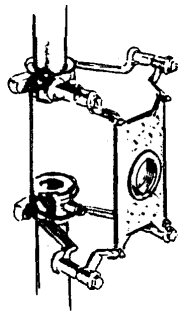
Maintenance

A. A schedule for maintenance check must be made at least once a year. It may be necessary to inspect frequently as necessary depending upon frequency of use and environment.

B. If it is necessary to open enclosure for inspection, always disconnect from the supply power source before opening cover.

C. Perform visual, electrical and mechanical checks on all components on a regular basis.

- Visually check for undue heating as evidence by discoloration of wires and other components, damaged or worn parts, or leakage evidence by water or corrosion inside enclosure.
- Electrically check to make sure connections are tight and clean, contacts are properly making or breaking as required.
- Mechanically check that all parts are properly assembled and all operating mechanisms are all moving freely.



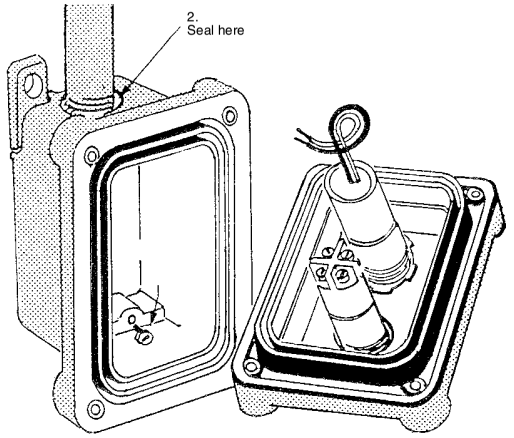
Aluminum grounding grid, imbedded into the non-metallic enclosure during molding, provides complete grounding system. No field work. No extra grounding wires or parts required.

• N2 series control stations; body and cover of 30% glass-reinforced thermoplastic polyetherimide.

U.S. Pat. 4,260,863
Patented Canada 1980

U.S. Pat. 3,699,276
Patented Canada 1974

Single Gang
Furnished with a 3/4" to 1/2" reducer.



Dead-End

2. TO PROVIDE COMPLETE CORROSION PROTECTION - AFTER CONDUIT IS INSTALLED APPLY CORROSION RESISTANT MATERIAL IN HUB RECESS AND AROUND EXPOSED CONDUIT THREADS.

Feed-Thru