Intraground® N1 Series Control Stations

Nonmetallic

10 Amp, 600 Vac Max. for Heavy Duty Use.

N1 Series (Non-Factory Sealed) ⊙
Class I, Division 1 and 2, Groups C, D
NEMA 3R, 4X, 7CD, 12

Applications

- Listed for use in Class I, Division 1 and 2, Group C and D atmospheres such as:
  - — Diethyl ether
  - — Methyl ethyl keytone
  - — Acetone
  - — Toluene
  - — No. 3 fuel oil
  - — Ammonium hydroxide (20%)
  - — Benzene
  - — Regular unleaded gas
  - — Ethyl acetate
  - — Hexane
  - — Methanol
- Not suitable for:
  - — Ethylene dichloride
  - — Partially halogenated hydrocarbons
- Sealing fittings must be field installed adjacent to enclosure on all conduit runs.
- Explosionproof, with sealing fittings installed at each conduit entrance, the N1 Series enclosures withstood a hydrostatic test of four times the maximum internal explosion pressure that could be developed from a gas or vapor explosion.
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or local hazardous location.

Features

- Nonmetallic construction with metal imbedded grounding grid. No need to install special wires and parts for grounding. Feed-thru or dead-end grounded 1/2" or 3/4" conduit openings for threaded conduit.
- Special grounding wire furnished with each box provides safe grounding when cover is removed.
- Ideal for use in corrosive environments. Nonmetallic enclosures with corrosion resistant parts coated with epoxy, Teflon® or Mylar®, these control stations offer unsurpassed resistance to chemicals.
- Unique labyrinth-path construction assures flame-tight joint between body and cover.
- Silicone gasket, specially designed for the labyrinth-path joint, prevents entrance of moisture without interfering with the venting of cooled hazardous gases and vapors.
- Typical mechanical properties of 24,500 psi tensile strength, 3% elongation at break, 33,000 psi flexural strength, and 1,200,000 psi flexural modulus.
- Electrical properties of sample specimens: dielectric strength (in air) of 769 at 1/16".
- High strength thermoplastic polyetherimide, together with thick walls (5/16") and sound structural design (rounded corners) provides superior resistance to impact and crushing.
- Excellent resistance to ultraviolet light and water.
- Excellent conduit connection strength.
- Excellent resistance to attack by fungi and mold.



Push Button



Pilot Light



Selector Switch



Combination Push Button and Pilot Light



Combination Selector Switch and Pilot Light

- Superior flammability resistance.

Related Products

- Sealing fitting must be installed at each conduit entrance of the N1 enclosure to be explosionproof. *See Fittings Section.*

⊙ For Class I, Division 1 applications, sealing fittings must be field installed adjacent to enclosure on all conduit runs.

© October 2012

Intraground® N1 and N2 Series Control Stations

Selector Switch Control Stations and Fire Alarm Station. Nonmetallic

10 Ampere, 600 Vac Max. for Heavy Duty Use. N1 Series – Neutral Color; N2 Series – Blue Color.

N1 Series (Non-Factory Sealed) ⊙
Class I, Division 1 and 2, Groups C, D
NEMA 3R, 4X, 7CD, 12

N2 Series (Factory Sealed)
Class I, Division 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III
NEMA 3R, 4X, 9EFG, 12



Pilot Light and Selector Switch



Selector Switch

Hub Size (Inches) ‡	Pilot Light Diagram	Switch Diagram Left	Switch Diagram Center	Switch Diagram Right	Catalog Number With Pilot Light	Catalog Number With Out Pilot Light
Dead-End						
1/2 or 3/4 — Pilot Light and 2-Pos., 2-Cir. Selector Switch			None		**N1D75-J112** **N2D75-J112**	**N1D75-12** **N2D75-12**
1/2 or 3/4 — Pilot Light and 2-Pos., 4-Cir. Selector Switch			None		**N1D75-J135** **N2D75-J135**	**N1D75-35** **N2D75-35**
1/2 or 3/4 — Pilot Light and 3-Pos., 2-Cir. Selector Switch					**N1D75-J1102** **N2D75-J1102**	**N1D75-102** **N2D75-102**
1/2 or 3/4 — Pilot Light and 3-Pos., 4-Cir. Selector Switch					**N1D75-J1345** **N2D75-J1345**	**N1D75-345** **N2D75-345**
Feed-Thru						
1/2 or 3/4 — Pilot Light and 2-Pos., 2-Cir. Selector Switch			None		**N1DC75-J112** **N2DC75-J112**	**N1DC75-12** **N2DC75-12**
1/2 or 3/4 — Pilot Light and 2-Pos., 4-Cir. Selector Switch			None		**N1DC75-J135** **N2DC75-J135**	**N1DC75-35** **N2DC75-35**
1/2 or 3/4 — Pilot Light and 3Pos., 2-Cir. Selector Switch					**N1DC75-J1102** **N2DC75-J1102**	**N1DC75-102** **N2DC75-102**
1/2 or 3/4 — Pilot Light and 3-Pos., 4-Cir. Selector Switch					**N1DC75-J1345** **N2DC75-J1345**	**N1DC75-345** **N2DC75-345**

Fire Alarm Station, Factory Sealed — Universal Contacts, with hammer on chain



Hub Size (Inches) ‡	Description		Catalog Number N1 Series ⊙ (Neutral Color)	Catalog Number N2 Series (Red Color)
Dead-End				
1/2 or 3/4	Universal 2 Position, 1 Circuit		**N1D75FA-U1**	**N2D75FA-U1**
Feed-Thru				
1/2 or 3/4	Universal 2 Position, 1 Circuit		**N1DC75FA-U1**	**N2DC75FA-U1**
Replacement Glass				
(For N1 or N2)			**NFA-G**	

‡ Furnished with a 3/4" to 1/2" NPT reducer.
⊙ For Class I, Division 1 applications, sealing fittings must be field installed adjacent to enclosure on all conduit runs. Do not use in atmospheres containing electrically conductive dusts (most coal dusts are not electrically conductive).

© September 2010