

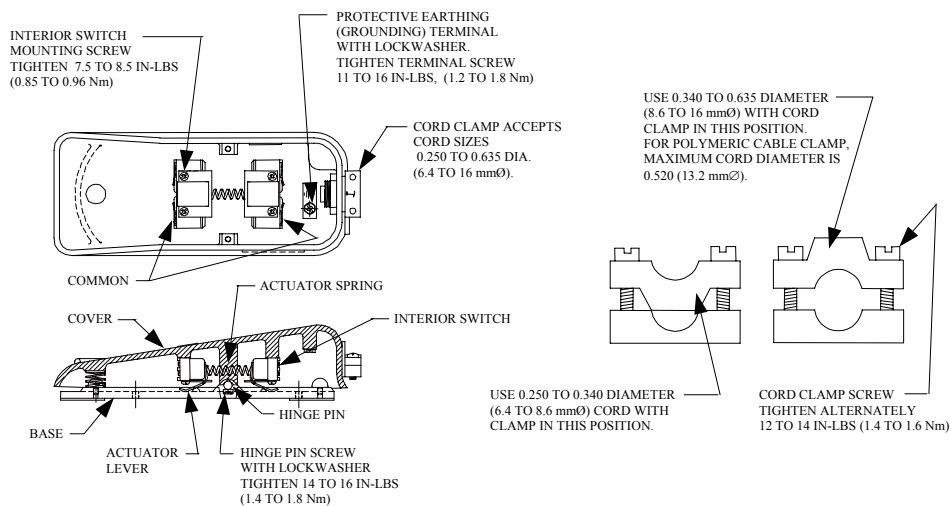
# DUPLEX CAT. NO. 476-S Foot Operated Switch

## WIRING

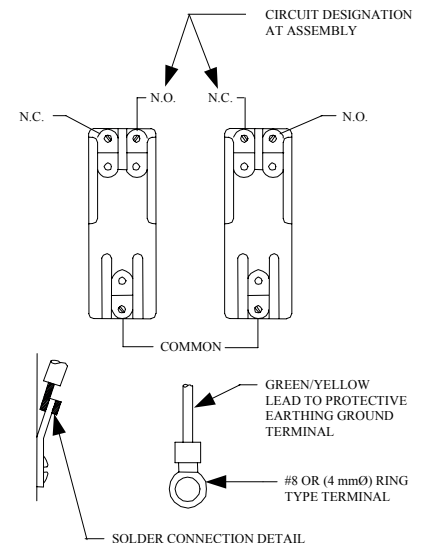
- WARNING: TO AVOID PERSONAL INJURY, DO NOT USE THIS SWITCH ON MACHINERY WITH AN UNGUARDED POINT OF OPERATION.**  
**READ WARNING STATEMENT** on the reverse side of this page.
- When wiring up this device make sure **POWER IS OFF AND LINES ARE DEAD.**
- MAXIMUM FUSE RATING:** Amperage and voltage not to exceed nameplate rating – Quick Acting.
- Supply cord with flexible conductors (LEADS) for soldering to the interior snap switches to be prepared as follows:  
 Strip outer jacket 7½ inches (190.50 mm) long.  
 Leads to far end interior switch are 7½ inches (190.50 mm) long.  
 Leads to protective earthing (GROUNDING) terminal are 4½ inches (114.30 mm) long.  
 Leads to cord end interior switch are 2 inches (50.80 mm) long.  
 Jumpers between interior switches are 7¼ inches (184.15 mm) long.  
 NOTE: These lengths may vary slightly due to cord construction.  
 Strip inner leads 5/16 inch (7.9 mm) and tin. Form 180° loops and trim excess after making a mechanical connection and prior to soldering as shown in **DIAGRAM “B”**.  
 Use special purpose crimping tool to apply the ring terminal.

### FOR CE MARKED FOOT SWITCHES, PLEASE NOTE THE FOLLOWING:

The grounding conductor must be green/yellow in color and be long enough such that the grounding terminal will be the last terminal to take the strain, should the strain relief fail. A cord guard or bend relief must be provided that extends beyond the cord clamp at least five times the overall diameter of the flexible cord.



**DIAGRAM “A”**



**DIAGRAM “B”**

- Remove hinge pin screws and base from cover; see **DIAGRAM “A”**. Please note orientation of internal components in the event you chose to remove the interior switches for soldering.
- Loosen or remove cord clamp screws, insert cord and connect inner leads to appropriate switch terminals; see **DIAGRAM “B”**. Solder connections as shown.  
**Note:** The circuit designations shown in **DIAGRAM “B”** are at assembly. The interior switches are reversed actuated in the foot switch housing. For example, the normally closed terminal marking molded into the interior switch body will produce a normally open circuit when the interior switch is assembled in the foot switch housing.  
 Check orientation of cord clamp for cord size range and re-tighten cord clamp screws alternately. See **DIAGRAM “A”**.
- CLEANLINESS** must be observed during installation and in use.  
 On a **REGULAR BASIS**, inspect foot switch frequently to guard against wear, damage, unlawful alterations or removal of guards, or for unusual enclosure deterioration and the like. Inspect the entire length of the connecting cord (or wiring system) from where it enters the foot switch to the equipment it's wired up to for wear, loose strain relief connections and the like. **DO NOT OPERATE** the foot switch if any of the above is observed or if the nameplate or warning label has been obscured or removed.  
 It is **IMPERATIVE** that inspection authorities and users exercise more than ordinary care with regard to installation and maintenance and that this information sheet is made available to the end user, operators, and maintenance personnel and to others responsible for the proper installation and safe operation of this foot switch.  
**ADDITIONAL COPIES** of this information sheet and warning labels are available upon request.

# **WARNING**

## **USE OF FOOT CONTROLS ON MACHINERY LACKING EFFECTIVE POINT OF OPERATION SAFEGUARDS CAN CAUSE SERIOUS INJURY TO THE OPERATOR.**

Foot controls should only be used where “Point of Operation” and “Pinch Point” guarding devices have been properly installed and are utilized so that it is **IMPOSSIBLE** for the operator’s hands or fingers to remain within the point of operation during the machine cycle.

**IT IS THE RESPONSIBILITY OF THE USER** to determine the suitability of a foot control for the user’s intended use and to determine that the foot control chosen by the user and wiring up and installation of same will comply with all Federal, State and Local safety and health regulations and codes.

Due to the unlimited variety of business equipment, instruments, machines and vehicles on which our foot switches are used, the thousands of standards, and customers’ varying interpretations of the standards covering these applications, it is impossible for **LINEMASTER** personnel to be experts on standards and requirements for all these products. We offer over 150 stock foot switch models and guards plus a large variety of specials which are made to customer specifications. We can advise you what is available in our foot switch line and you can examine models to see what meets your needs. We believe our customers’ engineering departments should be the qualified experts in their own product field and know what specifications or details they may require in a foot switch for their equipment. If one of our stock models meets their needs, they can specify it, or possibly ask for a modification of a stock model if that is required.

**SHOULD YOU HAVE ANY QUESTIONS OR IF ANY OF THE ABOVE WARNING IS UNCLEAR, PLEASE CALL LINEMASTER SWITCH CORPORATION.**  
(860) 974-1000; FAX (860) 974-0691 OR (800) 974-3668; [www.linemaster.com](http://www.linemaster.com)

**READ INSTRUCTIONS** on reverse side of this page.

### **DEFINITIONS:**

**POINT OF OPERATION** – The point or area of the machine or equipment where the work piece or material is actually positioned and work is being performed during any process such as cutting, shearing, punching, forming, welding, riveting, assembling, etc.

**PINCH POINT** – Any point at which it is possible for a portion of the body to be caught and injured between moving machine or equipment or work piece parts.

**Form #50-475-DD**

**NOTE:**

BLACK PRINTING ON 8.5" x 11" WHITE PAPER.  
FOLDED SIZE: 4.125" x 2.875" WITH WARNING OUT.  
BOTH SIDES OF FORM MUST BE ORIENTED THE SAME.

**DR: JTL      DATE: 06-26-01      APPV.: RDC      DATE: 06-26-01**

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**REVISIONS:**

<b>LEVEL</b>	<b>DATE:</b>	<b>DESCRIPTION</b>
A	01-06-03	Added over current protection note. (ECN 008001) (KWH)
B	01-17-03	Revised numbering on sheet 1. (ECN 010451)(JTL)
C	01-27-03	In Diagram "A" added to cable clamp flag out "For polymeric cable clamp, maximum cord diameter is 0.520 (13.2 mmØ). (ECN 010292)(JTL)