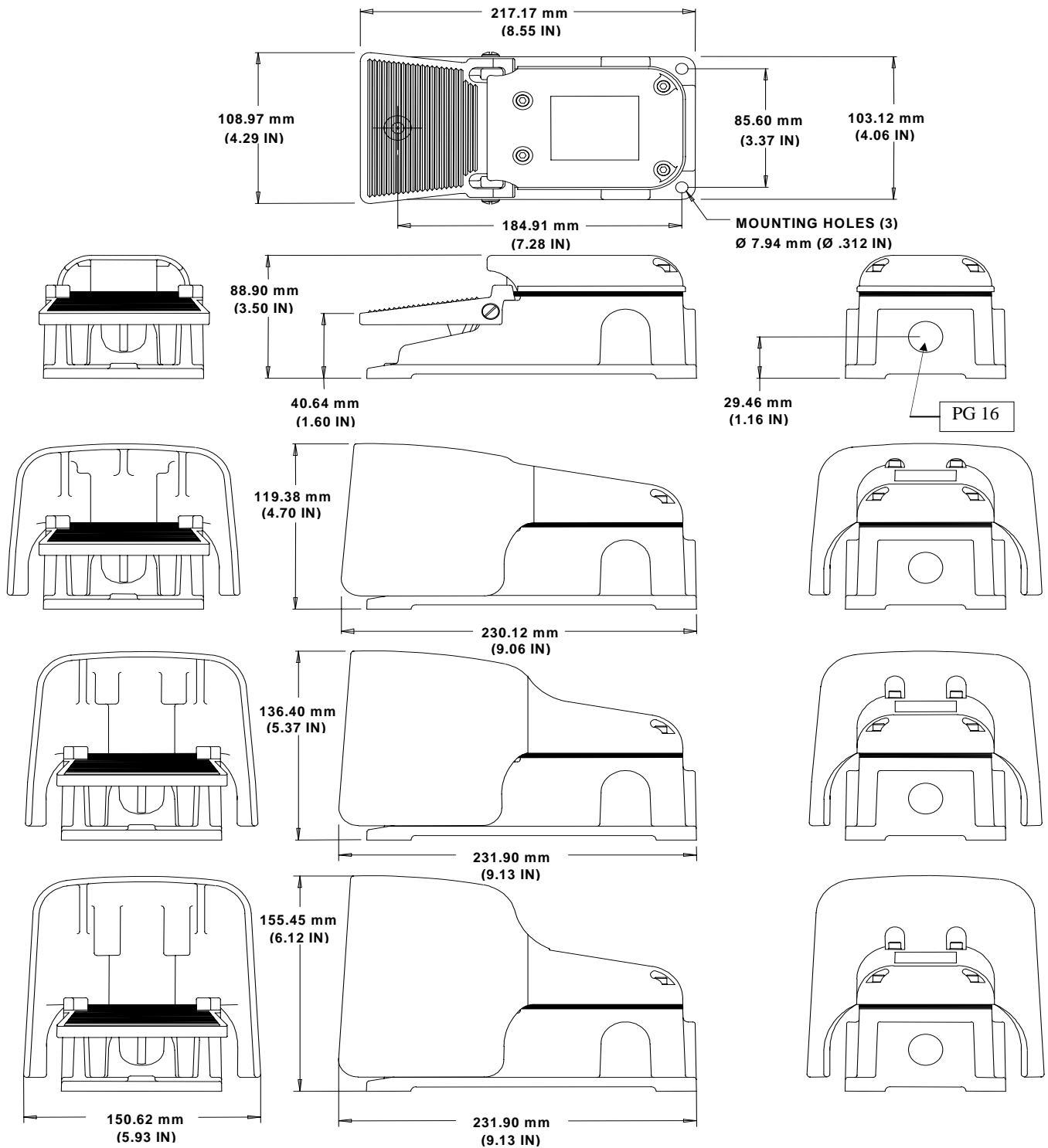


ATLAS FOOT OPERATED SWITCH



⚠ WARNING: TO AVOID PERSONAL INJURY, DO NOT USE THIS SWITCH ON MACHINERY WITH AN UNGUARDED POINT OF OPERATION.

⚠ READ WARNING STATEMENT on page 4.

LINEMASTER SWITCH CORPORATION
WOODSTOCK, CT USA

ATLAS FOOT OPERATED SWITCH

CLASSIFICATION

NOTE: THIS IS NOT A MAINS DISCONNECT DEVICE.

RATINGS: A300, Q300

FREQUENCY: 50/60 HZ

RATED THERMAL CURRENT: $I_{th} = 10A$ (AC)

$I_{th} = 2.5$ (DC)

UTILIZATION CATEGORY

& OPERATIONAL RATING: AC15 $U_e = 240V$; $I_e = 3A$

$U_e = 120V$; $I_e = 6A$

DC13 $U_e = 250V$; $I_e = 0.27A$

$U_e = 120V$; $I_e = 0.55A$

$U_e = 24V$; $I_e = 2.5A$

RATED INSULATION VOLTAGE: $U_i = 660$ VAC/VDC

IMPULSE VOLTAGE: $U_{imp} = 2500$ VDC

MAXIMUM FUSE RATING: 10A QUICK ACTING

PROOF TRACKING INDEX: PTI 250

EARTHING (GROUNDING): CLASS 1

MICRO DISCONNECTION: μ (FOR SNAP ACTION SWITCHES ONLY)

ACTUATING METHOD: FOOT OPERATED. CATEGORY A

FREQUENT OPERATION: $+++$ 1E5 (6000 OPERATIONS/HOUR MAX)

ENVIRONMENT: IP68; CSA, NEMA & UL ENCLOSURE TYPE 1, 2,

4, 6, 6P & 13. SUITABLE FOR USE IN A DIRTY

SITUATION (ORDINARY LOCATION).

TEMPERATURE: OPERATION, $-25^{\circ}C$ TO $+85^{\circ}C$ (-13° to $+185^{\circ}F$)

STORAGE, $-40^{\circ}C$ to $+85^{\circ}C$ ($-40^{\circ}F$ to $+185^{\circ}F$)

HUMIDITY: 30% to 95% NON-CONDENSING.

ALTITUDE: UP TO 1000M (3300 FT) ABOVE MEAN SEA LEVEL.

OPERATING FORCES & TREADLE TRAVEL: SEE DIAGRAMS ON

PAGE 3.

INSTALLATION

-  **WARNING: TO AVOID PERSONAL INJURY, DO NOT USE THIS SWITCH ON MACHINERY WITH AN UNGUARDED POINT OF OPERATION.**



READ WARNING STATEMENT on page 4.

- When wiring up this device make sure **POWER IS OFF AND LINES ARE DEAD.**

- Supply cord with flexible conductors (leads) to be prepared as follows:

When wiring up this device with flexible cord an **UNDERWRITERS LABORATORIES LISTED** liquidtight connector **MUST BE** provided. Use appropriate pipe thread sealant at assembly to seal connector threads.

When threading into the conduit opening, **CARE** must be taken to tighten the threaded joint sufficiently to prevent loosening but should **NOT BE FORCED**. The conduit threads should be kept clean; free from dirt and foreign materials that would hinder proper installation.

Use **UL/CSA** constructed cordage for North American applications and Harmonized cordage for International applications.

Conductor size range: $0.75mm^2$ to $2.5mm^2$ (#18 to #14 AWG).

For switch terminals, strip conductors 8mm (5/16 IN).

For the protective earthing (grounding) terminal, strip green/yellow conductor 11mm (7/16 IN).

As an option for the protective earthing (grounding) terminal, use a special purpose crimping tool to apply 4mm \varnothing (#8) ring terminal to the green/yellow conductor.

For **CE** Marked foot switches, please note the following:

A cord guard or bend relief must be provided that extends beyond the liquidtight connector at least five times the overall diameter of the flexible cord.

Tighten switch terminals to 0.80 Nm (7.0 IN-LBS).

Tighten protective earthing (grounding) terminal screw to 1.2 to 1.8 Nm (11 to 16 IN-LBS).

- Tighten the cover screws such that an effective seal is obtained with the gasket.

Tighten to 3.4 to 4.0 Nm (30 to 35 IN-LBS); two tightenings required.

- CLEANLINESS** must be observed during installation and use.

On a **REGULAR BASIS**, lubricate the treadle pivot with one or two drops of lubricating oil on that portion of the pivot that extends between the outside of the base and inside of the treadle; two places.

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 footswitch to the equipment its 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 be made available to the end user, operators, 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.

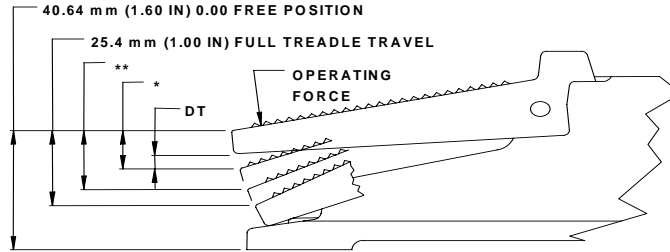
DIAGRAMS

KEY:



* CONTACT CHANGE-OVER (OPERATING POINT)
 ** POSITIVE OPENING OF ALL BREAK CONTACTS

† FORCE TO ACHIEVE CONTACT CHANGE-OVER
 †† MINIMUM FORCE TO ACHIEVE POSITIVE OPENING
 OPERATION OF ALL BREAK CONTACTS
 ††† FORCE TO ACHIEVE FULL TREADLE TRAVEL
 NOTE: ALL VALUES ARE APPROXIMATE.



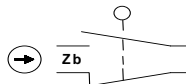
CATALOG NUMBER

CIRCUIT DIAGRAM

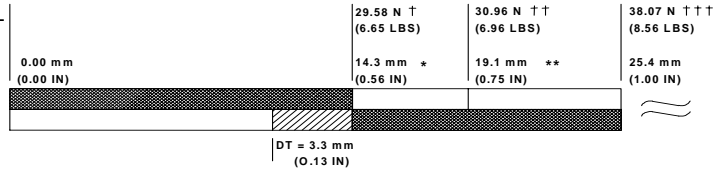
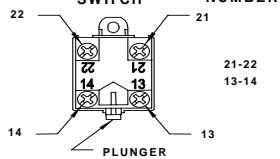
INTERIOR SWITCH

TERMINAL NUMBER

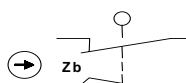
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 936-SWHO
 936-SWHOX
 936-SWN



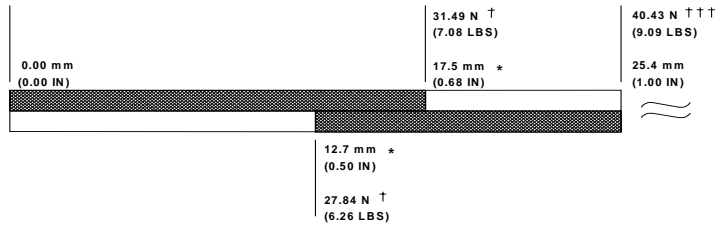
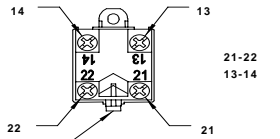
SPDT
SNAP ACTION



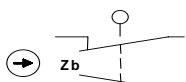
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 936-SWHOMB
 936-SWHOXMB
 936-SWNMB



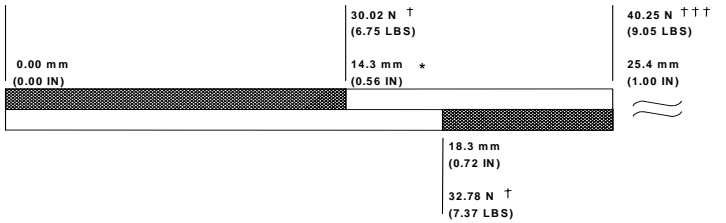
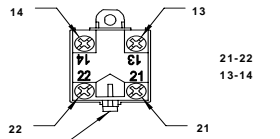
SPDT
MAKE BEFORE
BREAK



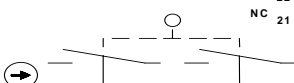
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 936-SWHOBM
 936-SWHOXBM
 936-SWNB



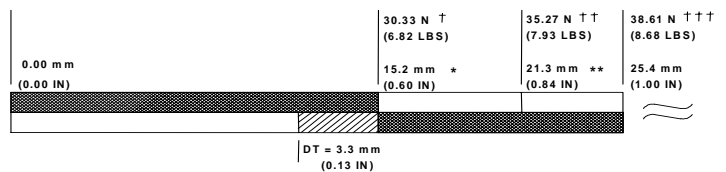
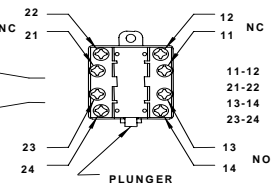
SPDT
BREAK BEFORE
MAKE



937-SWH
 937-SWHO
 937-SWHOX
 937-SWN



DPDT
SNAP ACTION



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

READ INSTRUCTIONS on preceding pages.

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.

