

Heavy Duty Industrial Foot Switches

P-1303
819-0523

Installation Instructions



 **Warner**[®]
Electric

An Altra Industrial Motion Company

⚠ WARNING Failure to follow these instructions may result in product damage, equipment damage, and serious or fatal injury to personnel.

Explanation of Model Identification Code for Foot Switches

Number of Pedals

Dash

Contact Block Function

Dash

Additional Features



F1 = One Pedal Foot Switch

U1 = Slow Action
1 NO / 1NC Single Pole Break Before Make Momentary

SU1 = Snap Action
1NO / 1NC Single Pole Momentary

U2 = Slow Action
2 NO / 2 NC Double Pole Break Before Make Momentary

SU2 = Snap Action
2 NO / 2NC Double Pole Momentary

NO = Normally Open

NC = Normally Closed

Z = (example U1Z) indicates a forced disconnect of the Normally Closed Contacts.

Y = (example U1Y) indicates a maintained contact. 1st depression of pedal latches switch on 2nd depression releases.

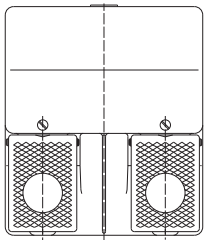
D = (example U2D) indicates a pressure point for operation with 2 contact blocks, 2 stage operation. 1st block operates up to pressure point, 2nd block operates after operation of pressure point switch.

AT = (example SU1Z AT) indicates an Anti-Trip Device. A lever must be pushed forward with a foot before the pedal can be pressed.

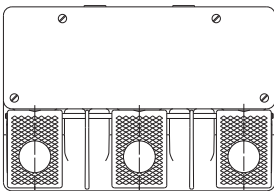
UN = (example F1-U1Z UN) indicates a Protective Guard over the pedal.

Mi RG = (example SU1 Mi RG) indicates a proportional output, fitted as standard is a variable resistor, 10K ohms, 2W.

AP = (example F1-U1 AP) Explosive proof switch for operation in medical areas "surgically safe".



F2 = Two Pedal Foot Switch



F3 = Three Pedal Foot Switch

Multi Pedal Switches:

With multi-pedal switches, it is possible for each pedal to have its own function. The functions available are explained in the Contact Block Function area of the Identification Code.

Note: Special function and combinations of foot switches can be designed and manufactured to meet the customer's own design performance and requirements. For information consult the Sales Office at 1-800-451-8279.

Ordering Example:

The following order has to be observed.

1. The type of desired device by number of pedals.
Example: **F1, F2, F3**
2. The number and type of contact block. For switches with several pedals indicate from left to right.
Example: F3-**U1/U1Y/U2D** UN
3. The indications concerning additional functions, versions or pedals have to be given in the description, directly behind the corresponding switching element.
Example with detent detent and pressure point: F3-U1/U1**Y/U2D** UN
4. Indications on special equipment which does not depend on the pedal have to be given at the end of the type designation.
Example: F2-U1/U1 **AP**
5. Versions with proection shield are marked at the end of the type designation by UN. Example: F2-U1/U1 AP **UN**

Specification Overview

Mechanical Features:

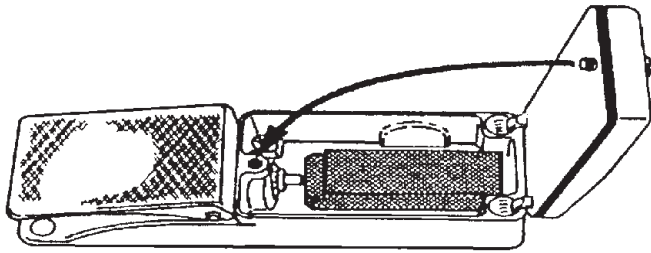
Case Material	Aluminum die cast
Protective Guard	Aluminum die cast
Actuator	Foot Lever
Ambient Air Temperature	-22°F to 176°F
Switch Action	Dependent upon switch selected
Contacts	Dependent upon switch selected
Mechanical Life	10 x 10 ⁶ Switch Operations
Switching Frequency	50 times per minute
Mounting	Free standing on rubber bumpers
Terminals	4 screw terminals per contact block
Cable Entries	All switches supplied with a 1/2 inch Conduit Adapter
Weight	Approximate: Without Guards F1 ≈1.5 lbs. (.7 kg) F2 ≈3.7 lbs. (1.7 kg) F3 ≈6.8 lbs. (3.1 kg) With Guards F1 ≈3.3 lbs. (1.0 kg) F2 ≈5.7 lbs. (2.6 kg) F3 ≈11.9 lbs. (5.9 kg)

Electrical Features:

Maximum Voltage	500 VAC
Enduring Current	20 AMPS
Inrush Current	Per IEC 947-5-1, AC 15, DC 13
Standards	According to VDE 0660, 0113, IEC 947-5-1
Protection Class	NEMA 4, IP65 According to DIN 40 050
UL / CSA Approved	10 AMP, 300 VAC, A300 (Same Polarity)

Assembly Instructions

To assemble either the top safety cover or the protective shield onto the foot switch set it at a right-angle (90°) to the base and then swivel down. It is important to ensure the rubber seal and cover is seated correctly. The cover should be hand tightened (Max. 5Nm / 3.7 ft. lb.). Over tightening will damage the seal.



⚠ WARNING

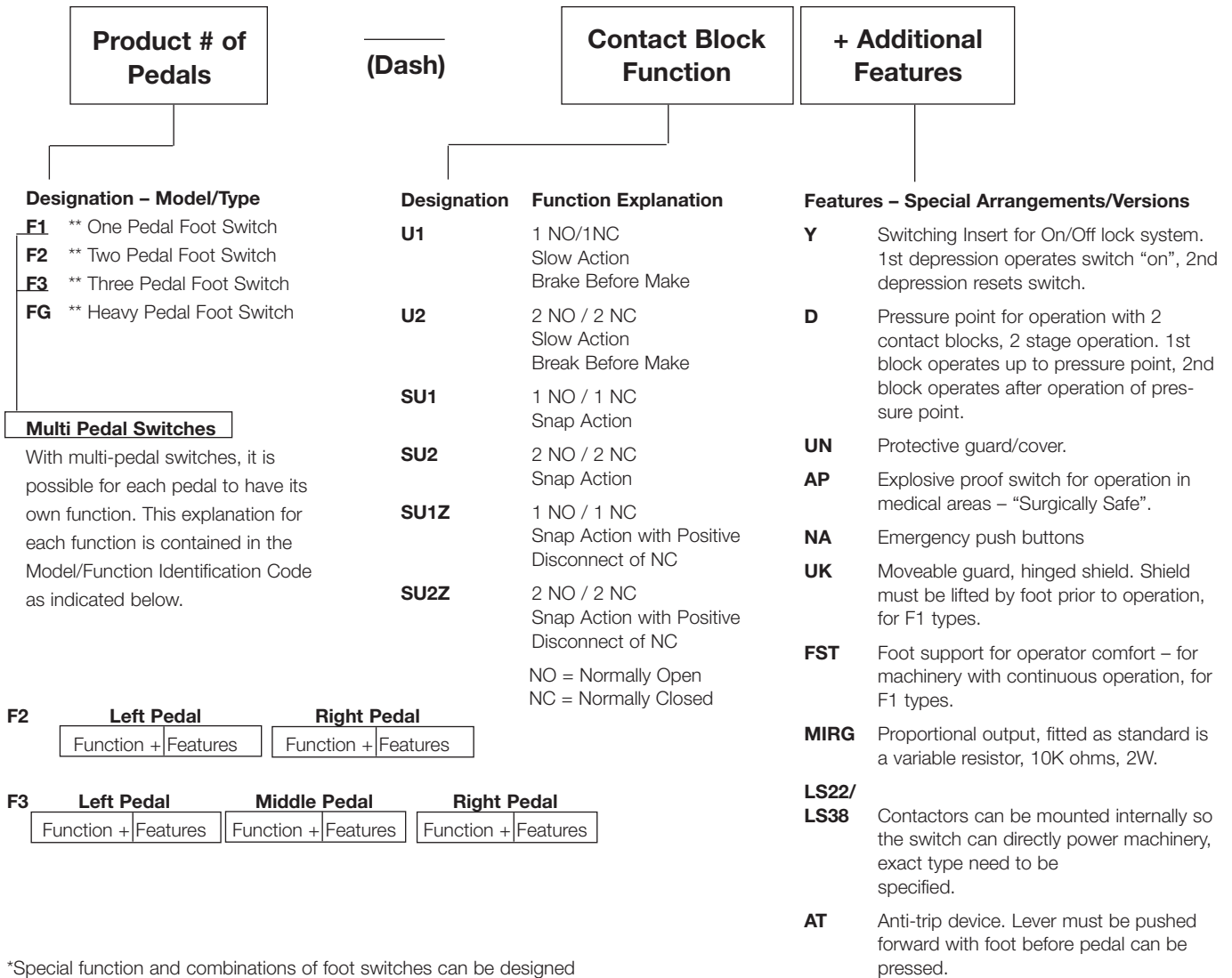
Hazardous Applications

Do not use foot switches on machines without point-of-operation protection. Failure to observe this warning can result in serious injury or death.

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.

Foot switches are used to control many industrial processes, while leaving the operator's hands free to perform other functions. The type or model of foot switch suitable for each application will vary depending on factors such as the control function required, degree of protection required, production methods, unusual conditions, government regulations, etc. Only the user can be aware of all the conditions and factors present during setup, operation and maintenance of the machine; therefore, only the user can determine which foot switch or switches can be properly used. When selecting a foot switch for a particular application, the user should refer to the application ANSI standards and OSHA regulations.

Foot Switch Model/Function Identification Code



*Special function and combinations of foot switches can be designed and manufactured to meet the customer's own design performance and requirements. For Information consult the Sentec Sales Office.

Warranty

Warner Electric LLC warrants that it will repair or replace (whichever it deems advisable) any product manufactured and sold by it which proves to be defective in material or workmanship within a period of one (1) year from the date of original purchase for consumer, commercial or industrial use.

This warranty extends only to the original purchaser and is not transferable or assignable without Warner Electric LLC's prior consent.

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