

Heavy Duty Industrial Foot Switches

Installation Instructions

P-1303 819-0523







A 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



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.

- The type of desired device by number of pedals.
 Example: F1, F2, F3
- The number and type of contact block. For switches with several pedals indicate from left to right.
 Example: F3-U1/U1Y/U2D UN
- 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/U1Y/U2D UN
- Indciations 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
- 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:

Aluminum die cast				
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Foot Lever				
-22°F to 176°F				
Dependent upon switch selected				
Dependent upon switch selected				
10 x 10 ⁶ Switch Operations				
50 times per minute				
Free standing on rubber bumpers				
4 screw terminals per contact block				
All switches supplied with a 1/2 inch Conduit Adapter				
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 ensre the rubber seal and cover is seated correctly. The cover should be hand tightened (Max. 5Nm / 3.7 ft. lb.). Over tightening will dambage the seal.



AWARNING

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 procccesses, while leaving the operator's hands free to perform other functions. The type or model of foot switch suitable for each application will veary 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

Product # of Pedals	(Dash)	Contact Block Function		Additional Features	
Designation – Model/Type Designati		Function Explanation	Featur	es – Special Arrangements/Versions	
F1** One Pedal Foot SwitchF2** Two Pedal Foot SwitchF3** Three Pedal Foot Switch	U1	1 NO/1NC Slow Action Brake Before Make	Y	Switching Insert for On/Off lock system. 1st depression operates switch "on", 2nd depression resets switch.	
FG ** Heavy Pedal Foot Switch	U2	2 NO / 2 NC Slow Action Break Before Make	D	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.	
	SU1	1 NO / 1 NC Snap Action			
Multi Pedal Switches	SU2	2 NO / 2 NC	UN	Protective guard/cover.	
With multi-pedal switches, it is possible for each pedal to have its		Snap Action	AP	Explosive proof switch for operation in	
own function. This explanation for	SU1Z	1 NO / 1 NC		medical areas - "Surgically Safe".	
each function is contained in the		Snap Action with Positive	NA	Emergency push buttons	
Model/Function Identification Code indicated below.	e as SU2Z	Disconnect of NC 2 NO / 2 NC Snap Action with Positive	UK	Moveable guard, hinged shield. Shield must be lifted by foot prior to operation for F1 types.	
		Disconnect of NC	FST	Foot support for operator comfort – for	
2 Left Pedal F	Left Pedal Right Pedal NO = Normally Open NC = Normally Closed		101	machinery with continuous operation, for F1 types.	
Function + Features Function + Features			MIRG	Proportional output, fitted as standard is a variable resistor, 10K ohms, 2W.	
3 Left Pedal Middle Function + Features Function +			LS22/ LS38	Contactors can be mounted internally so the switch can directly power machinery, exact type need to be specified.	
			АТ	Anti-trip device. Lever must be pushed	

*Special function and combinations of foot switches can be designed and manufactured to meet the customerís own design performance and requirements. For Information consult the Sentec Sales Office. AT Anti-trip device. Lever must be pushed forward with foot before pedal can be pressed.



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