

# Heavy Industrial Foot Switches

## Single / Two / Three Pedal

### with and without Protective Guard

#### Operational Modes Available

**Momentary:** Press pedal to start process. Remove foot and allow pedal to spring back to initial position and process to stop.

**Maintained:** Press pedal once to start process. Press pedal again to stop process.

**Proportional Output:** When the pedal is pressed, the output is proportional to the movement of the 10 K Ohm, 2 Watt potentiometer.

**Anti-Trip:** The Anti-Trip lever is an additional safety feature allowing the pedal to be activated only when the lever has been pushed forward.



#### 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<sup>6</sup> for on/off version switch operations
- Switching Frequency:** 50 times per minute
- Mounting:** Free standing on rubber bumpers
- Terminals:** 4 screw terminals per contact block (replaceable)
- Cable Entries:** All switches supplied with 1/2" conduit adapter
- Weight:** Approximately - F1 types 1.5 Kg. (3.3 lbs.)

##### Electrical Features:

- Maximum Voltage:** 500V AC
- 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, according to DIN 40 050
- UL/CSA Approved:** 10 Amp, 300 VAC, A300 (same polarity)

Type and Construction	Operating Mode	Contact Block	Model	Part Number	Drawing
Single Pedal	Momentary	1 N.O. - 1 N.C.	F1-SU1Z	606-1300-011	a
Single Pedal with Guard	Momentary	1 N.O. - 1 N.C.	F1-SU1Z UN	606-1800-012	b
Single Pedal with Guard & Anti-Trip	Momentary	1 N.O. - 1 N.C.	F1 SU1Z AT UN	616-1800-482	b
Single Pedal	Maintained	1 N.O. - 1 N.C.	F1-U1Y	606-1100-001	a
Single Pedal with Guard	Maintained	1 N.O. - 1 N.C.	F1-U1Y UN	606-1600-002	b
Single Pedal	Proportional	10K Ohm, 2W**	F1-SU1 Mi RG	616-1300-327	a
Single Pedal with Guard	Proportional	10K Ohm, 2W**	F1-SU1 Mi RG UN	616-1800-328	b
Two Pedal*	Momentary	2 x 1 N.O. - 1 N.C.	F2-SU1Z-SU1Z	606-2330-021	d
Two Pedal with Guard*	Momentary	2 x 1 N.O. - 1 N.C.	F2-SU1Z-SU1Z UN	606-2830-022	e
Three Pedal*	Momentary	3 x 1 N.O. - 1 N.C.	F3-U1Z-U1Z-U1Z	606-3111-025	f
Three Pedal with Guard*	Momentary	3 x 1 N.O. - 1 N.C.	F3-SU1Z-SU1Z-SU1Z UN	606-3833-045	g

\* On multi-pedal switches, each pedal operates independently.

\*\*Contacts rated at 5 amps

See page 40 of catalog for data on the Safety Foot Switch. F1-SU1Z/UV1DUN Part # 616-1000-203

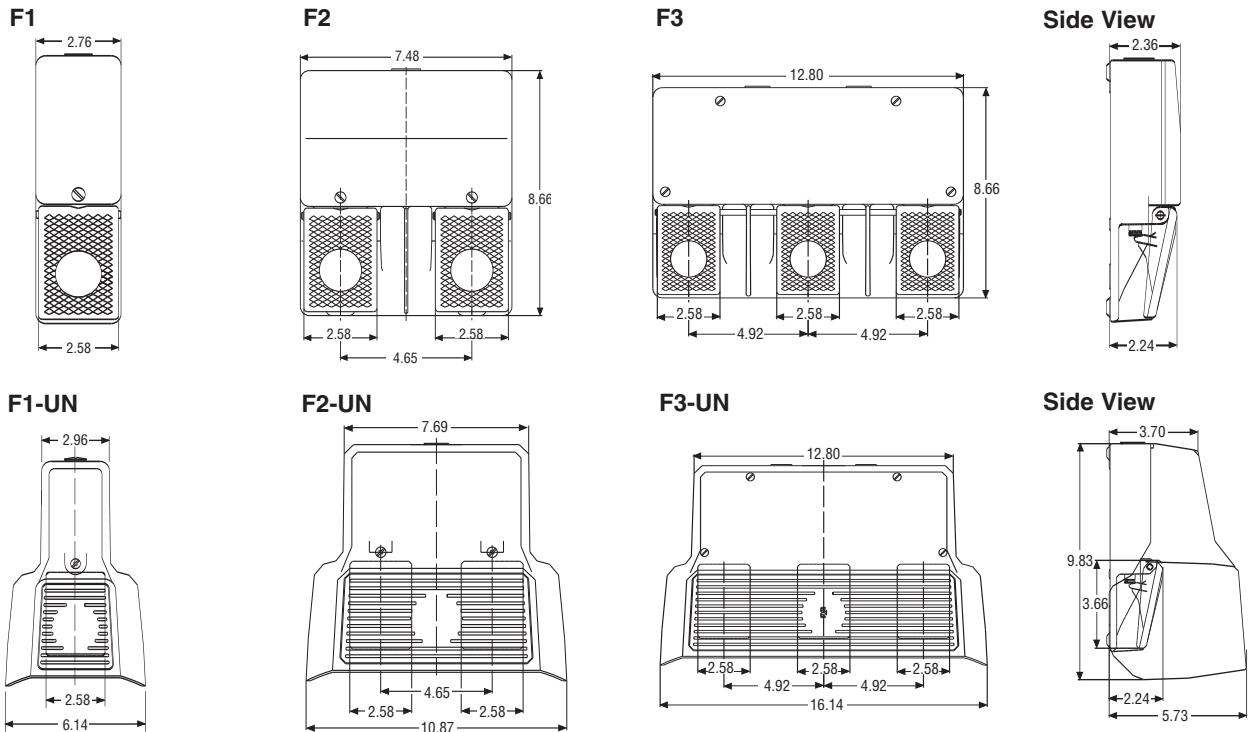
Other special versions available include, Foot Switches for Medical Applications and Foot Switches for use in explosive areas, these foot switches can be designed and manufactured to order.



#### Safety Foot Switches

Safety Foot Switches are “enabling devices” that are generally used on machinery where the operator needs to be able to immediately interrupt any given process in order to avoid bodily harm. Safety Foot Switch on Page 40.

## Mechanical Data (Dimensions are in inches)



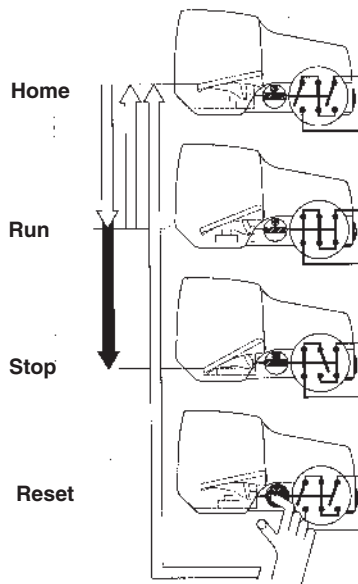
## SAFELOCK Safety Foot Switch

A safety foot switch is based on the operation of a standard type momentary action switch, with an additional safety latching switch mechanism.

The machine will only operate when the foot switch pedal is pushed down. Releasing the pedal or applying overpressure on the pedal will stop the machine. The foot switch locks in the emergency stop position when pushed through the secondary switch. To prevent accidental restarts, it must be manually reset.

- Rugged, heavy duty, metal housing
- Forced disconnect of the N.C. contact
- Contacts galvanically isolated
- Three cable entry points
- Cord grip provided
- UL, CSA, SEV and BG Approved

**Model:** F1-SU1Z/UV1 DUN  
**Part Number:** 616-1000-203  
**Enclosure:** Die Cast Aluminum  
**Contacts:** 1 Normally Closed  
 ⊕ Forced Disconnect per IEC 947-5-1 Ch. 3  
 2 Normally Open  
**Voltage Rating:** 500 VAC (max.)  
**Current Rating:** 10 A (max.)  
**Protection Class:** NEMA 4  
**Mechanical Life:** 10 x 10<sup>6</sup> Cycles  
**Temperature:** -22°F to +176°F  
**Switch Rate:** 50 per minute max.



(Dimensions are in inches)

