

FS-1 Series Light Duty Footswitches



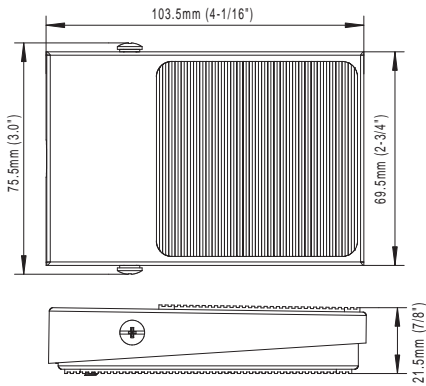
Features:

- Low cost foot switch for light to medium duty application
- Increased size 10% bigger than competitors product for easy operation
- Available in standard model and ergonomic (front hinged) model
- Black painted steel housing with nonskid base pad and foot treadle pad
- Switch rating: 15A (1/2HP) 125/250V AC
- Operating temperature range: -20°C to +80°C (-4°F to + 176°F)
- UL/cUL approved (E240199)
- IP20 for standard version
- Stainless housing and Water-proof to IPX8 Available on special request

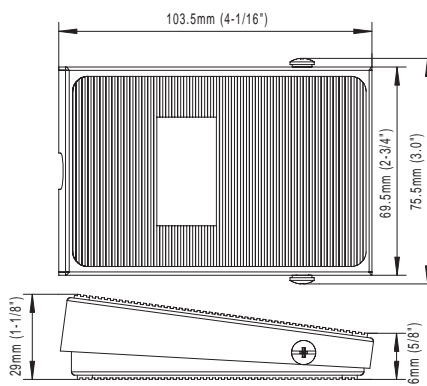


Dimensions:

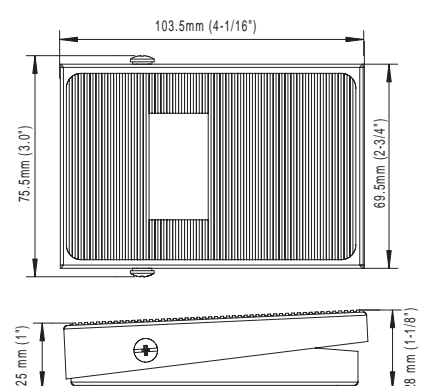
Standard model



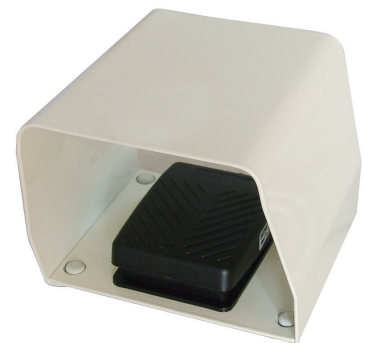
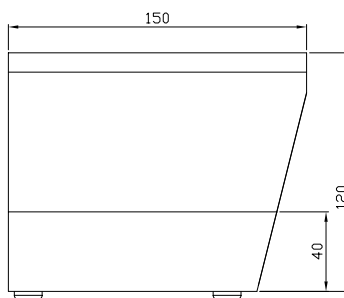
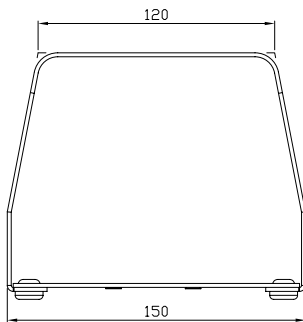
Front hinged (suffix add -H)



Maintained Option (add -D)



Guard Option:



Selection Guide:

FS-1	<u>10</u>	<u>D</u>	<u>2</u>	-	<u>P</u>	<u>Twin</u>
	Electrical Rating	Option #1	Option #2		Option #3	Option #4
	10: 10A/250VAC 15: 15A/250VAC	D: Maintained H: Front Hinged	2: Cable Length		P: Supplied with 3 prong series plug G: with Protective Guard S: Stainless Steel Enclosure K: Gold plated contact	Blank: Single pedal Twin: Dual Pedal

FS-2 Series Light Duty Footswitches

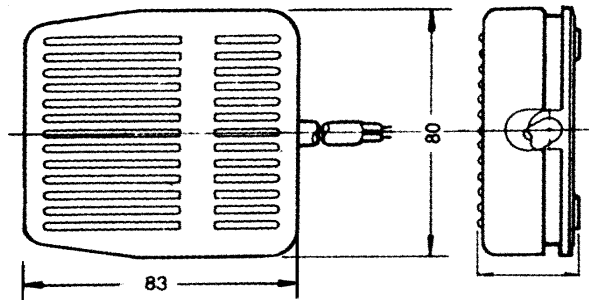


Features:

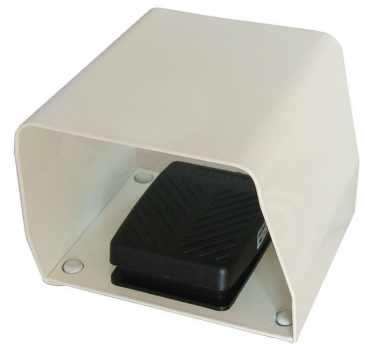
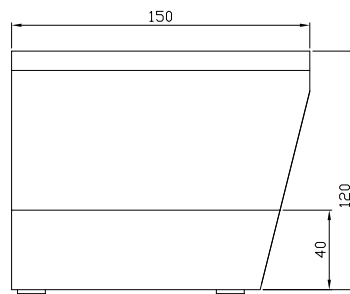
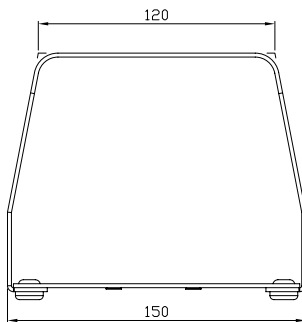
- Low cost foot switch for light duty applications
- High strength glass fiber reinforced plastic body
- Switch rating: 15A (1/2HP) 125/250V AC
- Operating temperature range: -20°C to +80°C (-4°F to + 176°F)
- UL/cUL approved (E240199)
- IP20 for standard version
- Water-proof to IPX8 Available on special request



Dimensions:



Guard Option:



Selection Guide:

<p>FS-1</p> <p><u>10</u></p> <p>Electrical Rating</p> <p>— 10: 10A /250VAC</p> <p>— 15: 15A /250VAC</p>	<p>2</p> <p>Option #1</p> <p>— 2: Cable Length</p>	<p>-</p>	<p>P</p> <p>Option #2</p> <p>— P: Supplied with 3 prong series plug</p> <p>— G: with Protective Guard</p> <p>— K: Gold plated contact</p>	<p>Twin</p> <p>Option #3</p> <p>— Blank: Single pedal</p> <p>— Twin: Dual Pedal</p>
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FS-81 Series Footswitches



Features:

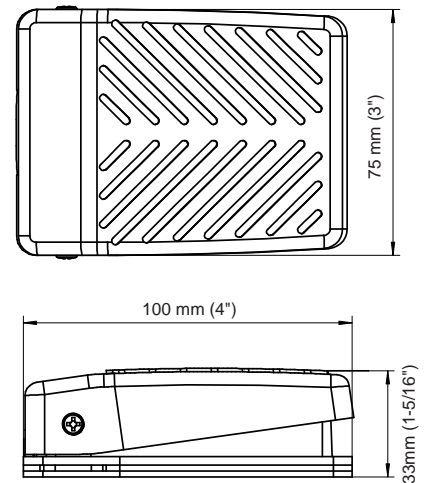
- Robust Glass Fiber Reinforced Plastics or aluminum die cast body
- Choice of different type of contact blocks
- Galvanically separated contacts (for FS81-SP only)
- Positive Opening of NC contacts (for FS81-SP only)
- UL/cUL approved (E216958)
- IEC60601 certification issued by TUV for medical applications



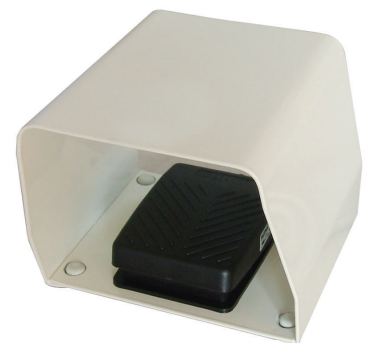
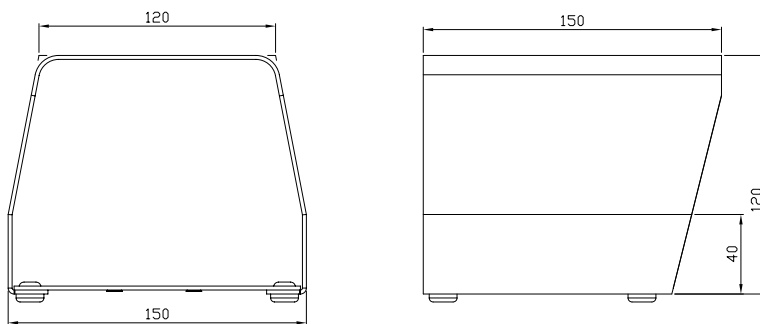
Specifications:

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ
Rated Current/Voltage	15A, 1/2HP,125/250VAC or 10A/300V AC (for FS81-SP)
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x10 ⁷ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP20 and IPX8 (for FS81-SP)

Dimensions:



Guard Option:



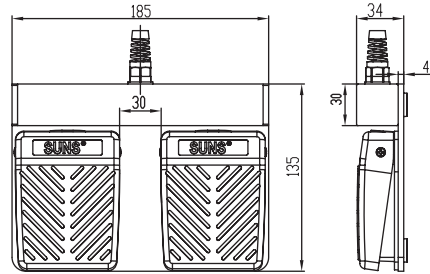
Selection Guide:

FS8	-	1	-	10	-	2	-	M	-	P
		Number of Pedal		Micro switches		Cable length		Enclosure Type		Option #1
		1 through 6		10: 10A/250VAC 15: 15A/250VAC SP: 10A/300VAC (IP68 rated)		2: Cable Length		Blank: Fiber reinforced Plastic M: Die cast Aluminum		P: Supplied with 3 prong series plug G: with Protective Guard K: Gold plated contact

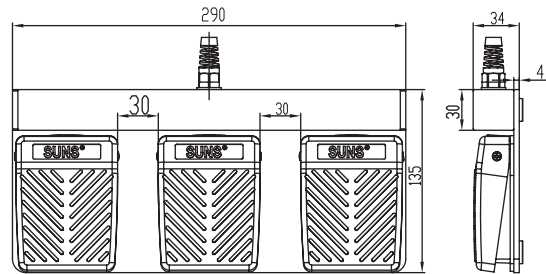
FS-81 Series Footswitches



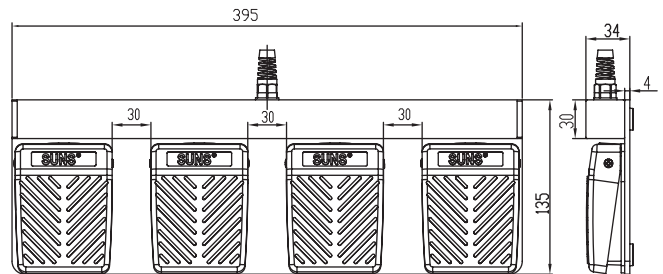
FS-82



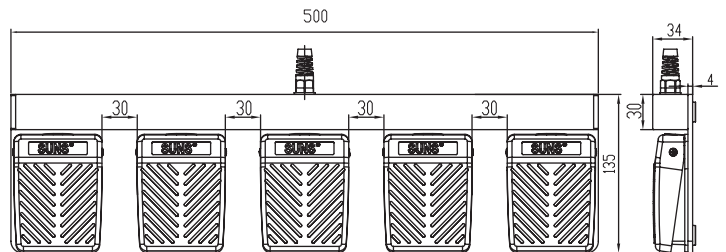
FS-83



FS-84



FS-85



Selection Guide:

FS8	-	1	-	10	-	2	-	M	-	P
		Number of Pedal		Micro switches		Cable length		Enclosure Type		Option #1
		1 through 6		10: 10A/250VAC 15: 15A/250VAC SP: 10A/300VAC (IP68 rated)		2: Cable Length		Blank: Fiber reinforced Plastic M: Die cast Aluminum		P: Supplied with 3 prong series plug G: with Protective Guard K: Gold plated contact

FS-82D Series Footswitches

Features:

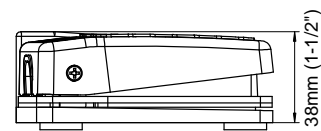
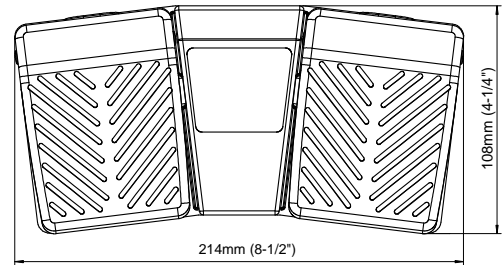
- Robust Glass Fiber Reinforced Plastics housing
- Pedal available in plastic and aluminum die cast metal
- Choice of different type of contact blocks
- Galvanically separated contacts (for FS82D-SP only)
- Positive Opening of NC contacts (for FS82D-SP only)
- UL/cUL approved (E216958)
- IEC60601 certification issued by TUV for medical applications



Specifications:

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ
Rated Current/Voltage	10A/300V AC
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x 10 ⁶ (operations) Electrically 5 x 10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP20 and IPX8 (for FS82D-SP)

Dimensions:



Selection Guide:

FS-82D	-	<u>10</u>	-	<u>2</u>	-	<u>M</u>	-	<u>K</u>
		Micro switches		Cable length		Enclosure Type		Contact Type
		10: 10A /250VAC				Blank: Fiber reinforced Plastic		blank: Silver contact
		15: 15A/ 250VAC				M: Die cast Aluminum		K: Gold plated contact
		SP: 10A/300VAC (IP68 rated)		2: Cable Length				



FS-72 Series Footswitches

Specifications:

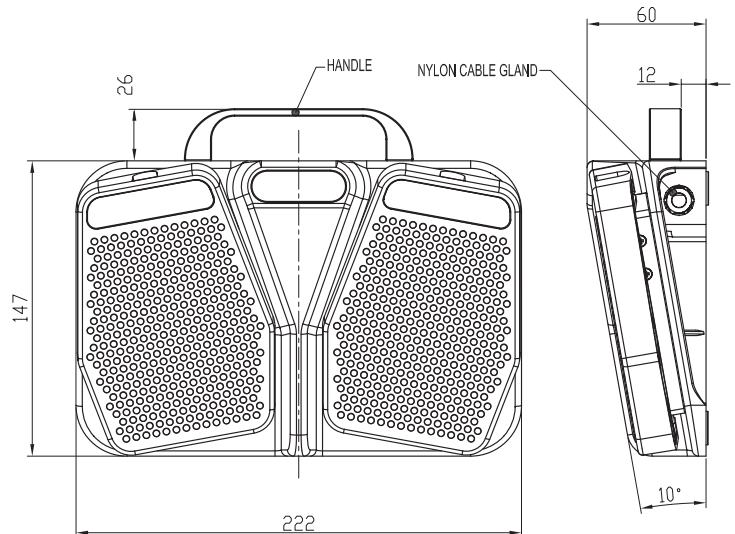
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ
Rated Current/Voltage	10A/300V AC
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x 10 ⁶ (operations) Electrically 5 x 10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP20 and IPX8 (add -w)



Features:

- Robust glass fiber reinforced plastics housing
- Each pedal rock left and right
- Available in IP20 and IPX8 version
- Designed for medical and industrial applications

Dimensions:



Selection Guide:

FS-72R	-	10		B
			Electrical Rating	Options
			10: 10A /250VAC	B: with pushbutton
			15: 15A/ 250VAC	H: with handler
				K: gold plated contact
				W: waterproof (IP68)

* Offer custom cable and connecto according to customer requirements.

FS5-20 Series Heavy Duty Footswitches

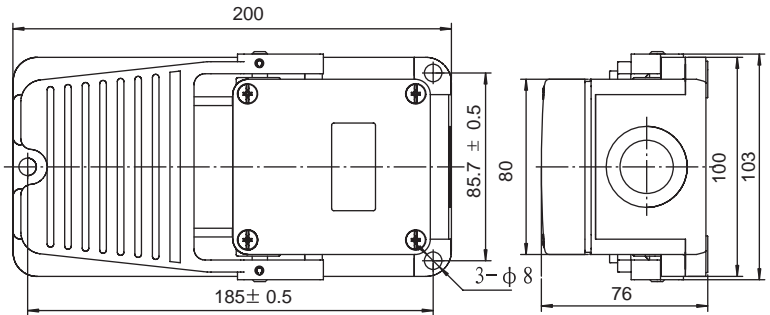


Features:

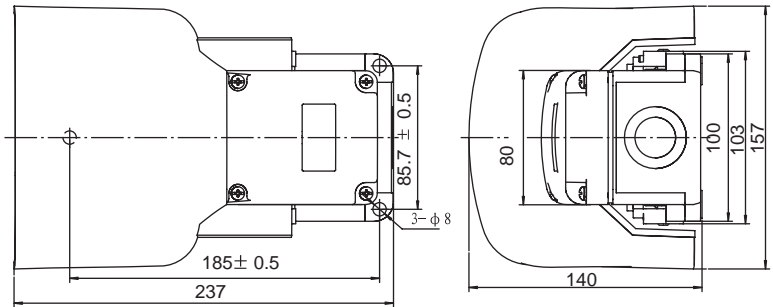
- Robust Iron cast body
- Four Switch ratings available:
 - 20A, 125/250/480V AC, 1HP/125VAC, 2HP/250VAC
 - 25A, 125/250/480V AC, 1HP/125VAC, 2HP/250VAC
- Operating temperature range: -20°C to +80°C (-4°F to +176°F)
- UL/cUL approved (E240199)
- IP65 Rated
- Conduit available in: M20, 1/2NPT and PG13.5

Dimensions:

FS5-20



FS-5G-20



Selection Guide:

FS-5	-	G		20	-	C	-	D	-	P	-	2
		Guarding Options		Micro switches		Conduit Type		Option		Option #2		Cable length
		Blank: No Guard		20: 20A 125-250VAC 1HP/125VAC, 2HP/250VAC		A: 1/2NPT		Blank:		blank:		2: Cable Length
		G: Fully Guarded		25: 25A 125-250VAC 1HP/125VAC, 2HP/250VAC		B: PG13.5		D: Maintained		P: with 3 prong series plug		
						C: M20 x1.5		A: Anti-Tripped		S: 2 stages		

Footswitches FS-61 SERIES

Features:

- Robust aluminum alloy die cast body
- Choice of different type of contact blocks
- Water-proof to IP65 (IP67 available on special request)
- Galvanically separated contacts
- Screw terminals with self-lifting clamps for easy wiring
- Positive Opening of NC contacts
- Safety reset option available
- UL/cUL approval(E216958)
- Threaded Hole available in: PG13.5, M20x1.5 and 1/2NPT

Specifications:

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ
Rated Current/Voltage	10A/600V AC A600/AC15 Q300/DC13
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x 10 ⁶ (operations) Electrically 5 x 10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP65 (IP67 available on request)

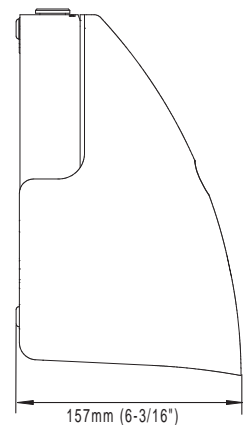
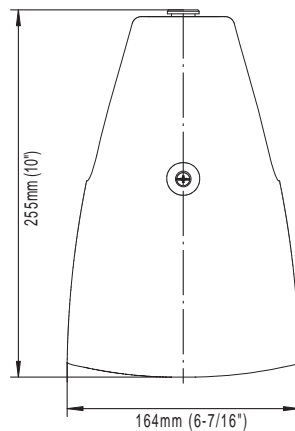
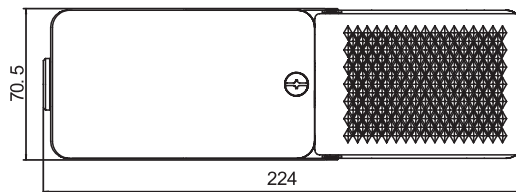
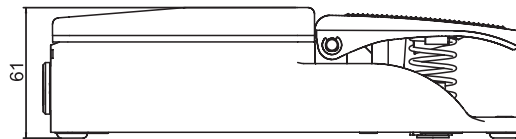
Dimensions:



Model : FS-61



Model : FS-61..G



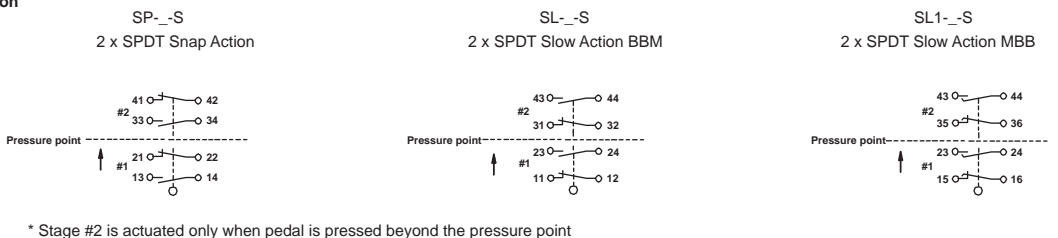
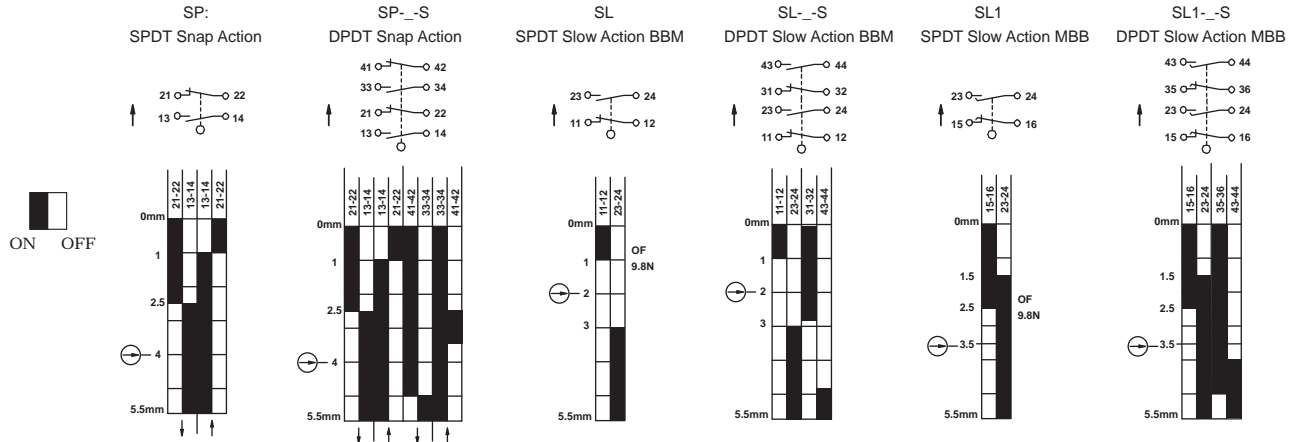
Selection Guide:

<p>FS-61 - G</p> <p>Guarding Options</p> <ul style="list-style-type: none"> Blank: No Guard G: Fully Guarded 	<p>SP</p> <p>Contact Block Type</p> <ul style="list-style-type: none"> SP: 1NO/1NC Snap action SL: 1NO/1NC Slow Action BBM SL1: 1NO/1NC Slow Action MBB V: 10K Potentiometer 	<p>C</p> <p>Conduit Type</p> <ul style="list-style-type: none"> A: 1/2NPT B: PG13.5 C: M20 x1.5 	<p>Option #1</p> <ul style="list-style-type: none"> Blank: D: Maintained A: Anti-Tripped 	<p>Option #2</p> <ul style="list-style-type: none"> blank: S: 2 stages 	<p>Option #3</p> <ul style="list-style-type: none"> blank: Silver Contact K: Gold Plated Contacts
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Footswitches FS-61 SERIES



Contact Configuration and Travel Diagram:



Safety Footswitch FS61-SP .. R

This is a special design foot switch with two stage momentary contacts. There are noticeable resistance between stage one and stage two. When pressing the pedal without reaching the pressure point, the foot switch operates in the normal model. In case of emergency, the user depresses the foot pedal even harder instead of releasing the pedal. This special safety foot switch will break electrical contact and locked. The manual reset button need to be pushed before it can operate in normal model. This can quickly prevent damage to the machine or injury to human life.



Operating Sequence:

- "OFF" **Step 1:** The pedal is not depressed. The contacts are open. The machine is turned off.
- "ON" **Step 2:** To start the machine, the pedal must be depressed until the "pressure point", where resistance is noticeable.
- "EMERGENCY - OFF" **Step 3:** In an emergency, if the pedal is depressed beyond the pressure point, the machine will stop. Beyond the pressure point, the contacts are locked in the "OFF" - Position. The machine cannot operate at this time. Note: The machine can also be stopped, by releasing the pedal instead of depressing harder. (Back to Step 1)
- "RESET" **Step 4:** The push button on the side of the foot switch must be pushed by hand to enable the foot switch to start the machine function again.
- "ON" **Step 5:** Return to condition described in Step 2.

Footswitches FS-62 SERIES

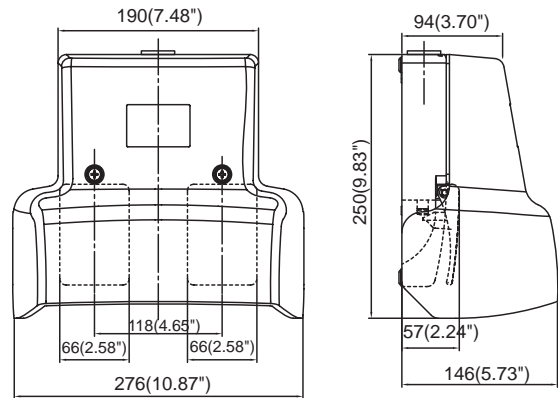
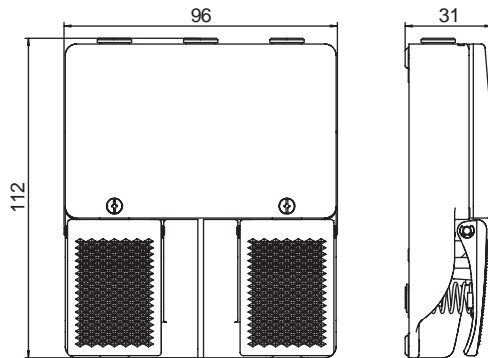
Specifications:

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ
Rated Current/Voltage	10A/600V AC A600/AC15 Q300/DC13
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x 10 ⁶ (operations) Electrically 5 x 10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP65 (IP67 available on request)

Features:

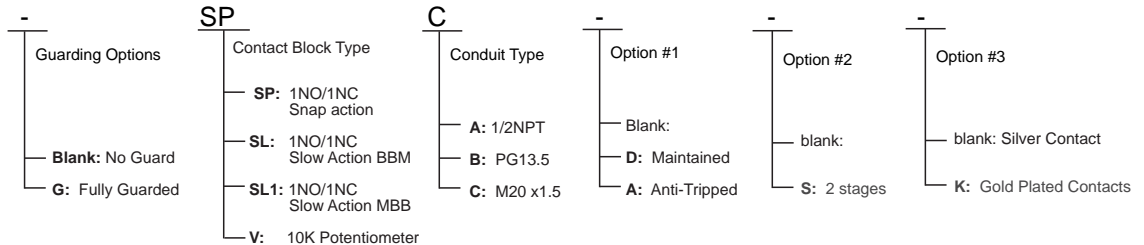
- Robust aluminum alloy die cast body
- Choice of different type of contact blocks
- Water-proof to IP65 (IP67 available on special request)
- Galvanically separated contacts
- Screw terminals with self-lifting clamps for easy wiring
- Positive Opening of NC contacts
- Safety reset option available
- Threaded Hole available in: PG13.5, M20x1.5 and 1/2NPT

Dimensions:



Selection Guide:

FS-62



* Contact Configuration and Travel Diagram is the same as FS-61.