

SUNS[®] International ,LLC

■ Innovation ■ Quality ■ Service



Medical Foot Switches

<http://www.suns-usa.com>

2018

• Innovation • Quality • Service



SUNS International is a leading manufacturer of high quality medical grade foot switches. Our world class manufacturing facility is ISO9001 and ISO13485 certified. All of our medical foot switches are IPx8 rated and IEC60601-1 certified.

Why Choose SUNS Medical Foot Switches:

- Serving medical equipment communities for over 20 years.
- Trusted by top medical companies
- High quality and competitive price
- Ergonomic design and wide range of choices
- Offer customization and turn-key design

SUNS products are widely used in following applications:

Medical Lasers
Electrosurgical Generator
Biopsy Sampling System
Surgical Microscope Control
Ophthalmic Imaging
Dental Equipment
Hospital Bed/Chair Control
X-ray / MRI /CT Machines

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FS-1 Series Stainless Steel Medical Foot Switches (IPX8)

Features

- Robust all stainless steel design for corrosion resistance
- With nonskid base pad and foot treadle pad
- UL/CSA/CE/CCC approved
- Custom wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/250VAC
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	IPX8 (NEMA 4, 4x, 6, 6P)

Selection Guide:

FS-1G - 10 - W - SS - 8 - F - 18/3

Guard Cable Length Blank: Meter(s) F: Foot/Feet

Blank: No guard
G: Fully guarded

Other cable Information
e.g. 18/3 18AWGx3

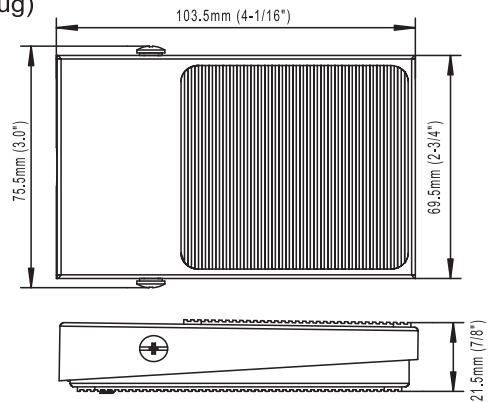
Dimensions:

FS-1-10-W-SS (Not wired)

FS-1-10-W-SS-2-18/3 (Prewired, 2 meters, 18AWGx3, 1NO)

FS-1-10-W-SS-8F-18/3 (Prewired, 8ft, 18AWGx3, 1NO)

FS-1-10-W-SS-P-8F-18/3 (Prewired, 8ft, 18AWGx3, with series plug)

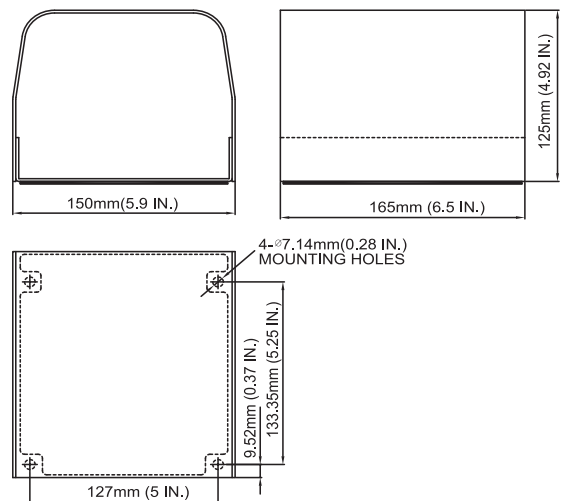


FS-1G (Orange)

FS-1G-W (Medical white)

FS-1G-SS (Stainless steel)

FSP-1G(Plastic)



FS-81 Series Medical Foot Switches(IPX8)

Features

- Robust glass fiber reinforced plastic or zinc die cast body
- Galvanically separated contacts
- Positive opening of NC contacts
- UL/CSA/CE/CCC approved
- IEC60601 certification issued by TÜV for medical applications
- Custom color/wiring available

Specifications

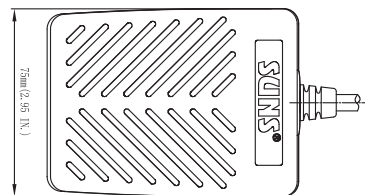
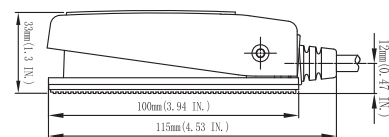
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC UL Rating: A300/AC15 CCC Rating: 10A/250V IEC60601 (TUV): 5A/25VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x10 ⁶ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8 (NEMA 4, 4x, 6, 6P)

Selection Guide:

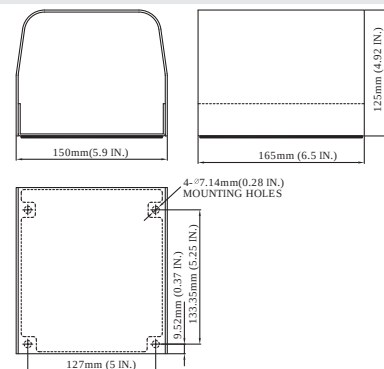
FS-81 - SP	-	T	-	M	-	Twin	-	8	-	F	-	20/4S
Switch Type		Contact Type		Enclosure Type		Options		Cable Length				Additional Wiring Information e.g. 20AWGx4 Shielded
SP: Snap action		Blank: SPDT		Blank: Fiber reinforced plastic		Blank: single				Blank: Meter(s)		
SL: Slow action		T: DPDT (2NO/2NC)		M: Die cast zinc		Twin: 2-pedal				F: Foot/feet		
		S: DPDT (2-stage)				n-pedal (n = 3...6)						
												* Standard pedal color:Black -Y for Yellow -U for Blue

Dimensions:

FS-81-SP-2-20/4S (20AWGx4, shielded, 2 meters, 1NO/1NC, cable diameter 7.0mm)
 FS-81-SP-2-22/5S (22AWGx5, shielded, 2 meters, 1NO/1NC, cable diameter 5.6mm)
 FS-81-SP-T-2-20/4S (20AWGx4, shielded, 2 meters, 2NO, cable diameter 7.0mm)
 FS-81-SP-T-2-22/5S (22AWGx5, shielded, 2 meters, 2NO, cable diameter 5.6mm)
 FS-81-SP-S-2-20/4S (20AWGx4, shielded, 2 meters, 2x1NO, 2-stage, cable diameter 7.0mm)
 FS-81-SP-S-2-22/5S (22AWGx5, shielded, 2 meters, 2x1NO, 2-stage, cable diameter 5.6mm)

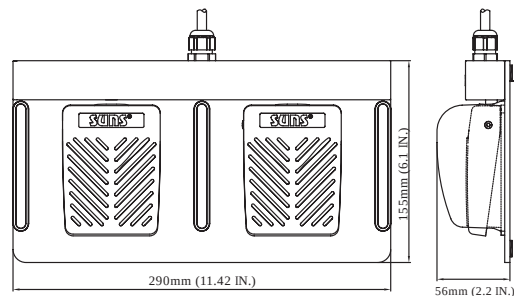


FS-1G (Orange)
 FS-1G-W (Medical white)
 FS-1G-SS (Stainless steel)
 FSP-1G(Plastic)

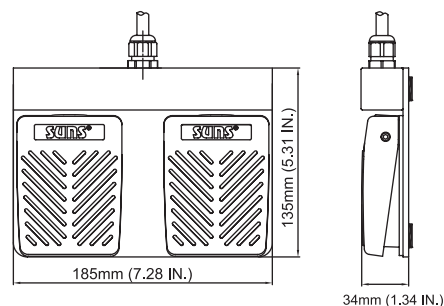


FS-81 Series Medical Foot Switches(IPx8)

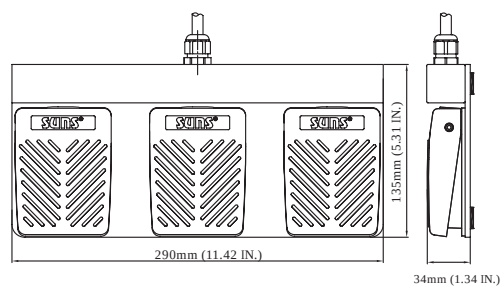
FS-81-SP-W(Twin)-2-20/4S (20AWGx4, shielded, 2 meters, 1NO per pedal, cable diameter 7.0mm)
 FS-81-SP-W(Twin)-2-22/5S (22AWGx5, shielded, 2 meters, 1NO per pedal, cable diameter 5.6mm)



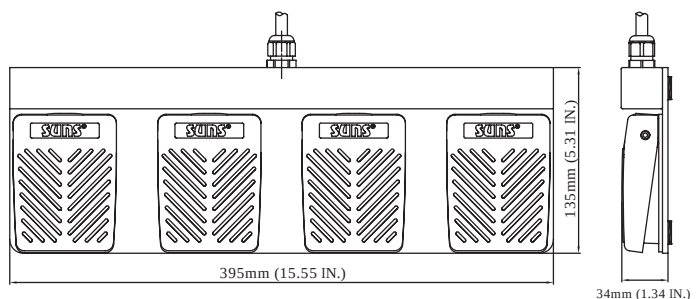
FS-81-SP-(Twin)-2-20/4S (20AWGx4, shielded, 2 meters, 1NO per pedal, cable diameter 7.0mm)
 FS-81-SP-(Twin)-2-22/5S (22AWGx5, shielded, 2 meters, 1NO per pedal, cable diameter 5.6mm)



FS-81-SP-(3-Pedal)-2-20/4S (20AWGx4, shielded, 2 meters, 1NO per pedal, cable diameter 7.0mm)
 FS-81-SP-(3-Pedal)-2-22/5S (22AWGx5, shielded, 2 meters, 1NO per pedal, cable diameter 5.6mm)



FS-81-SP-(4-Pedal)-2-22/5S (22AWGx5, shielded, 2 meters, 1NO per pedal, cable diameter 5.6mm)



FS-81-CS Series Medical Foot Switches (IPX8)

Features

- Maximum protection provided for accidental activation, with minimum dimensions
- High mechanical stability
- Push to open; Push again to close
- Foot pedal material: glass fiber reinforced plastic or zinc die cast
- Zinc die cast base with fiber reinforced plastic protective cover

Specifications

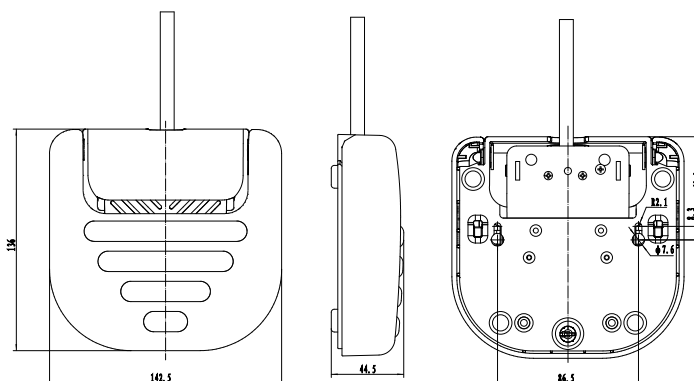
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC UL Rating: A300/AC15 CCC Rating: 10A/250V IEC60601 (TUV): 5A/25VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x10 ⁶ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8 (NEMA 4, 4x, 6, 6P)

Selection Guide:

FS-81	-	SP	-	T	-	M	-	8	-	F	-	20/4S	-	CS
		Switch Type		Enclosure Type		Contact Type		Cable Length				Additional Wiring Information e.g. 20AWGx4 Shielded		
		SP: Snap action		Blank: Fiber reinforced plastic		Blank: SPDT						Blank: Meter(s)		
		SL: Slow action		M: Die cast zinc		T: DPDT (2NO/2NC)						F: Foot/feet		
						S: DPDT (2-stage)								

Dimensions:

- FS-81-SP-2-20/4S-CS** (20AWGx4, shielded, 2 meters, 1NO/1NC, cable diameter 7.0mm)
FS-81-SP-2-22/5S-CS (22AWGx5, shielded, 2 meters, 1NO/1NC, cable diameter 5.6mm)
FS-81-SP-T-2-20/4S-CS (20AWGx4, shielded, 2 meters, 2NO, cable diameter 7.0mm)
FS-81-SP-T-2-22/5S-CS (22AWGx5, shielded, 2 meters, 2NO, cable diameter 5.6mm)
FS-81-SP-S-2-20/4S-CS (20AWGx4, shielded, 2 meters, 2x1NO, 2-stage, cable diameter 7.0mm)
FS-81-SP-S-2-22/5S-CS (22AWGx5, shielded, 2 meters, 2x1NO, 2-stage, cable diameter 5.6mm)



FS-82 Series Medical Foot Switches (IPX8)

Features

- Robust glass fiber reinforced plastic
- Galvanically separated contacts (for -SP, -SL)
- Positive opening of NC contacts (for -SP, -SL)
- UL/CSA/CE/CCC certified
- IEC60601 certification issued by TÜV for medical applications
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC UL Rating: A300/AC15 CCC Rating: 10A/250V IEC60601 (TUV): 5A/25VAC
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	IPX8(NEMA 4, 4X, 6, 6P)

Selection Guide:

FS-82G - SP	-	-	T	-	M	-	8	-	F	-	20/4S
Guard		Switch Type		Contact Type		Pedal Material	Cable Length				Additional Wiring Information
Blank: No guard		SP: 10A snap action (IPx8)		Blank: SPDT		Blank: Fiber reinforced plastic					20AWGx4 Shielded
G: Fully guarded		SL: 10A slow action (IPx8)		T: DPDT (2NO/2NC)		M: Die cast zinc alloy				Blank: Meter(s)	
				S: DPDT (2-stage)						F: Foot/Feet	

* Standard pedal color: Black

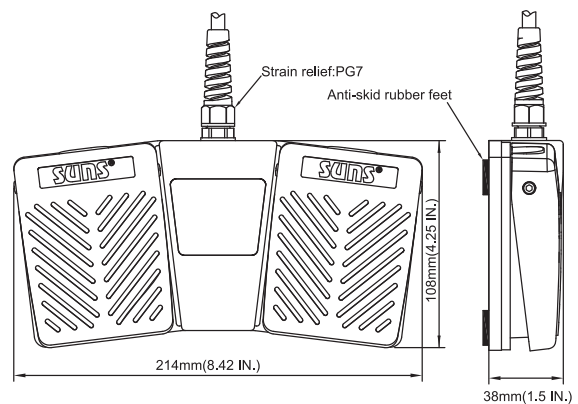
Dimensions:

FS-82-SP-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)

FS-82-SP-2-22/5S (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)



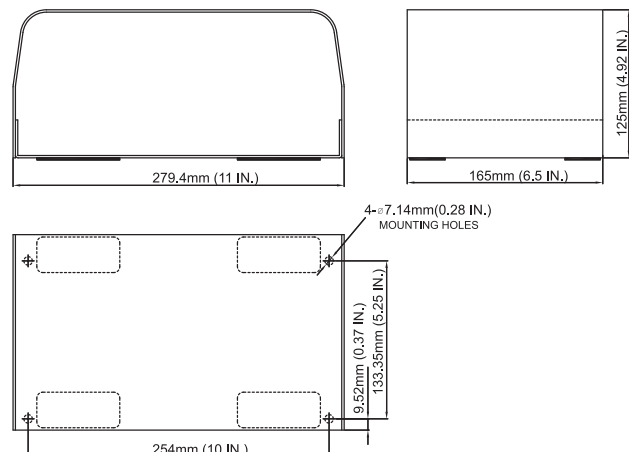
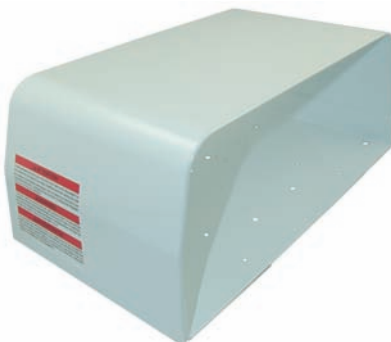
* Color code: (E.g. suffix: -Y,U/B for more clarity)



FS-TG (Orange)

FS-TG-W (Medical white)

FS-TG-SS (Stainless steel)



FS-82 Series Medical Foot Switches (IPX8)

Features

- Aluminum alloy die cast base
- Galvanically separated contacts (for -SP, -SL)
- Positive opening of NC contacts (for -SP, -SL)
- UL/CSA/CE/CCC certified
- IEC60601 certification issued by TÜV for medical applications
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC UL Rating: A300/AC15 CCC Rating: 10A/250V IEC60601 (TUV): 5A/25VAC
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	IPX8(NEMA 4, 4X, 6, 6P)

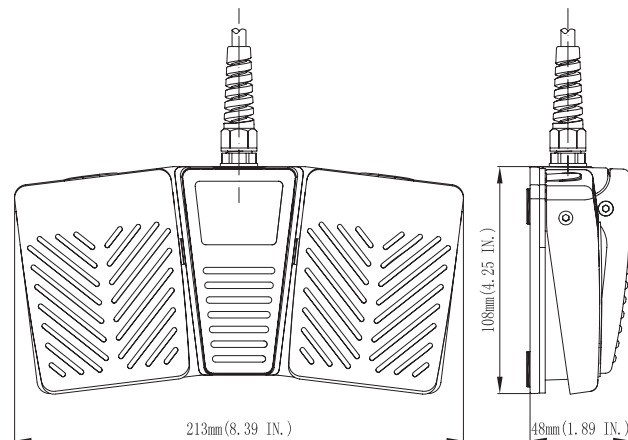
Selection Guide:

FS-82 - SP	-	T	-	M	-	B100N	-	8	-	F	-	20/4S
Switch Type		Contact Type		Pedal Material		Cable Length						Additional Wiring Information
SP: 10A snap action (IPx8)		Blank: SPDT		Blank: Fiber reinforced plastic		Blank: No middle switch				Blank: Meter(s)		20AWGx4 Shielded
SL: 10A slow action (IPx8)		T: DPDT (2NO/2NC)		M: Die cast aluminum		50N: 50N O.F. for middle switch				F: Foot/Feet		
		S: DPDT (2-stage)				100N: 100N O.F. for middle switch						

* Standard pedal color: Black

Dimensions:

FS-82-SP-M-B100N



FS-81-W Series Medical Foot Switches (IPX8)

Features

- Aluminum alloy die cast base
- Galvanically separated contacts (for -SP, -SL)
- Positive opening of NC contacts (for -SP, -SL)
- UL/CSA/CE/CCC certified
- IEC60601 certification issued by TÜV for medical applications
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC UL Rating: A300/AC15 CCC Rating: 10A/250V IEC60601 (TUV): 5A/25VAC
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	IPX8(NEMA 4, 4X, 6, 6P)

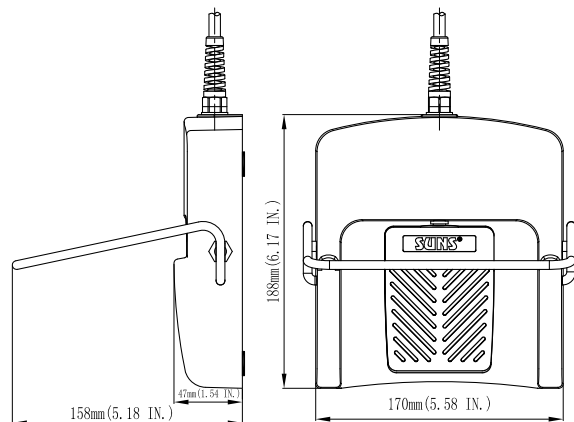
Selection Guide:

FS - 81 - SP	- W	- T	- M	- B1	- 8	- F	- 20/4S
Switch Type		Contact Type	Pedal Material	Options	Cable Length		Additional Wiring Information
SP: 10A snap action (IPX8)		Blank: SPDT	Blank: Fiber reinforced plastic	Blank: No Button		Blank: Meter(s)	
SL: 10A slow action (IPX8)		T: DPDT (2NO/2NC)	M: Die cast zinc alloy	B1: Button in middle		F: Foot/Feet	
		S: DPDT (2-stage)		B2: 2 Buttons on left and right			
				B3: 3 Buttons			

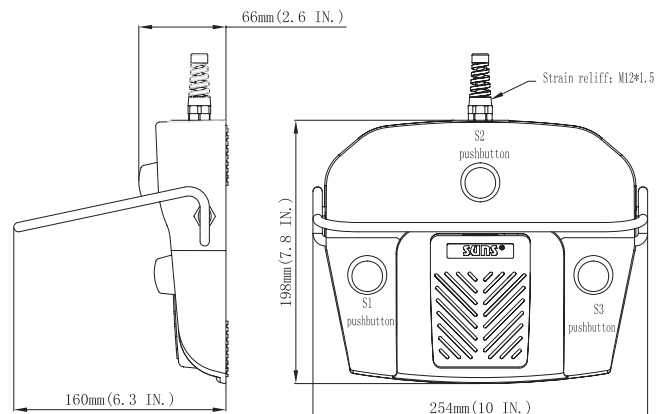
* Standard pedal color: Black

Dimensions:

FS-81-SP-W-M-B2-2



FS-81-SP-W-T-B3-2



FS-82-W Series Medical Foot Switches (IPX8)

Features

- Aluminum alloy die cast base
- Galvanically separated contacts (for -SP, -SL)
- Positive opening of NC contacts (for -SP, -SL)
- UL/CSA/CE/CCC certified
- IEC60601 certification issued by TÜV for medical applications
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC or 10A/15A 250VAC
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	IPX8(NEMA 4, 4X, 6, 6P)

Selection Guide:

FS-82	-	SP	-	W	-	T	-	M	-	B1	-	8	-	F	-	20/4S	(S)
Switch Type		Contact Type		Pedal Material		Options		Cable Length		Additional Wiring Information		Blank: Large base					
SP: 10A snap action (IPx8)		Blank: SPDT		Blank: Fiber reinforced plastic		B: NO Button				Blank: Meter(s)		(S): Small base					
SL: 10A slow action (IPx8)		T: DPDT (2NO/2NC)		M: Die cast aluminum		B1: Button in middle				F: Foot/Feet							
		S: DPDT (2-stage)				B2: 2 Buttons on left and right											
						B3: 3 Buttons											

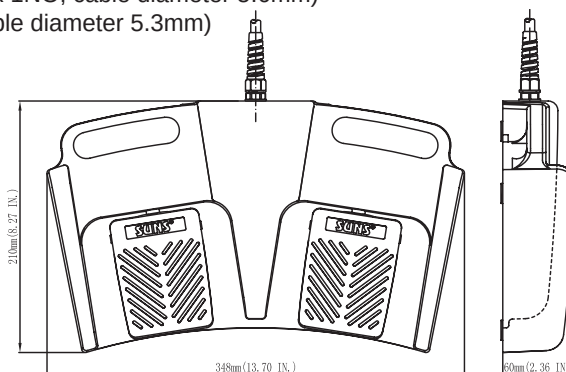
Dimensions:

* Standard pedal color: Black

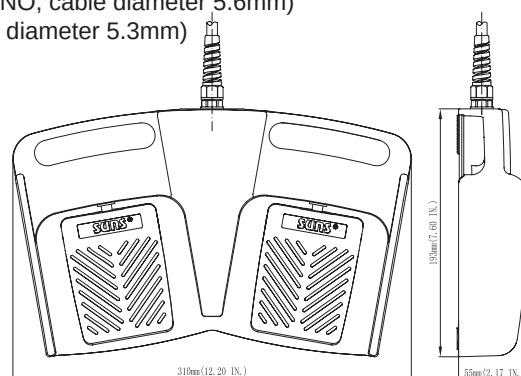
* Standard pedal color: Black

Dimensions:

FS-82-SP-W-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
 FS-82-SP-W-2-22/5S (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)
 FS-82-SP-W-B1-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
 FS-82-SP-W-B2-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
 FS-82-SP-W-B3-26/7 (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)



FS-82-SP-W-2-20/4S (S) (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
 FS-82-SP-W-2-22/5S (S) (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)
 FS-82-SP-W-B1-2-20/4S (S) (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
 FS-82-SP-W-B2-2-22/5S (S) (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
 FS-82-SP-W-B3-26/7 (S) (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)



FS-83-W Series Medical Foot Switches (IPX8)

Features

- Aluminum alloy die cast base
- Galvanically separated contacts (for -SP, -SL)
- Positive opening of NC contacts (for -SP, -SL)
- UL/CSA/CE/CCC certified
- IEC60601 certification issued by TÜV for medical applications
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC or 10A/15A 250VAC
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	IPX8(NEMA 4, 4X, 6, 6P)

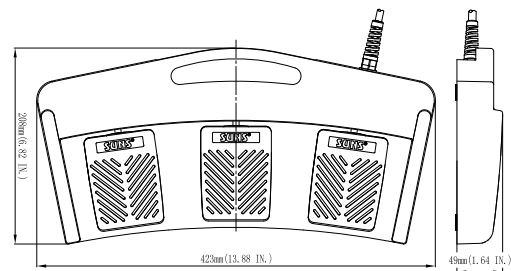
Selection Guide:

FS-83 - SP - W - T - M - B1 - 8 - F - 20/4S - Partition	
Switch Type	SP: 10A snap action (IPx8) SL: 10A slow action (IPx8)
Contact Type	Blank: SPDT T: DPDT (2NO/2NC) S: DPDT (2-stage)
Pedal Material	Blank: Fiber reinforced plastic M: Die cast aluminum
Options	B: No Button B1: Button in middle B2: 2 Buttons on left and right B3: 3 Buttons
Cable Length	8
Additional Wiring Information	20AWGx4 Shielded Blank: Meter(s) F: Foot/Feet
Partition	Blank: No Partition P: With partition between pedals

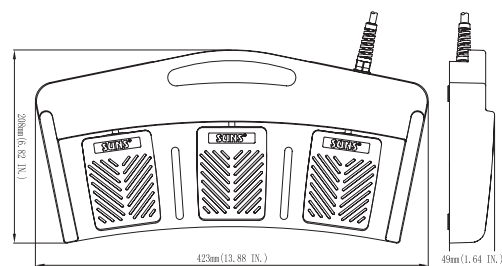
* Standard pedal color: Black

Dimensions:

FS-83-SP-W-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
 FS-83-SP-W-2-22/5S (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
 FS-83-SP-W-B1-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
 FS-83-SP-W-B2-26/7 (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)



FS-83-SP-W-2-20/4S(P) (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
 FS-83-SP-W-2-22/5S(P) (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
 FS-83-SP-W-B1-2-22/5S(P) (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
 FS-83-SP-W-B2-26/7(P) (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)



FS-84-W Series Medical Foot Switches (IPX8)

Features

- Robust glass fiber reinforced plastic base
- Galvanically separated contacts (for -SP, -SL)
- Positive opening of NC contacts (for -SP, -SL)
- UL/CSA/CE/CCC certified
- IEC60601 certification issued by TUV for medical applications
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC or 10A/15A 250VAC
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	IPX8(NEMA 4, 4X, 6, 6P)

Selection Guide:

FS-84 - SP - W - T - M - B1 - 8 - F - 20/4S					
Switch Type	Contact Type	Pedal Material	Options	Cable Length	Additional Wiring Information
SP : 10A snap action (IPx8)	Blank : SPDT	Blank : Fiber reinforced plastic	Blank : No Button		Blank : Meter(s)
SL : 10A slow action (IPx8)	T : DPDT (2NO/2NC)	M : Die cast zinc	B1 : Button in middle		F : Foot/Feet
	S : DPDT (2-stage)		B2 : 2 Buttons on left and right		
			B3 : 3 Buttons		

* Standard pedal color: Black

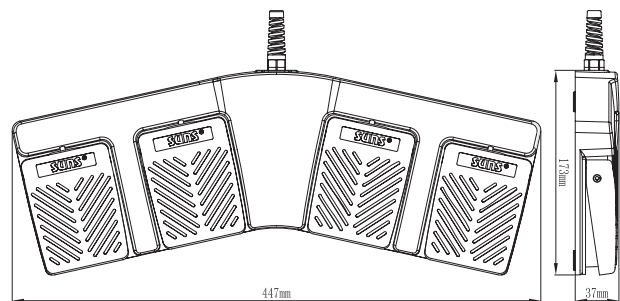
* Standard pedal color: Black

Dimensions:

FS-84-SP-W-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)

FS-84-SP-W-B1-26/7 (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)

FS-84-SP-W-B2-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



FS-8 Series Linear Hall Effect Foot Switches (IP68)

Features

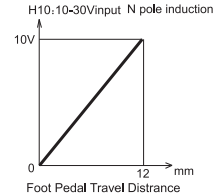
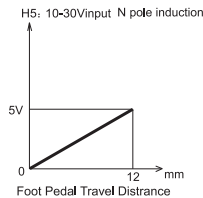
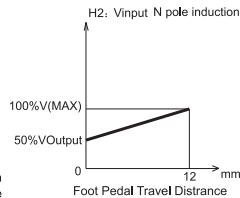
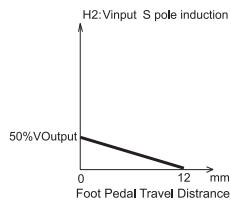
- Robust glass fiber reinforced plastic housing
- Aluminum alloy die cast base
- Linear output or switch output
- Output can be directly connected to most electronics circuitry such as microprocessors integrated logic, discrete transistors and SCRs with compatible voltage specifications

Specifications

Supply Voltage (Vs)	Switch output H1: 3.8-30VDC Analog output H2: 4.5-10.5 VDC H3: 30VAC H5/H10: 10-30 VDC
Supply Current	H1: 45mA H2: 7mA H3: 20mA H5/H10: 16mA
Output Type	Linear output or switch output
Output Voltage	See the graph below
Output Current	H2/H3: 5mA H5/H10: 20mA H5/H10: 45mA
Service Life	1 x10 ⁷ (operations)
Operating Temperature	-40~+100°C (-40~212°F)
Degree of Protection	IP68

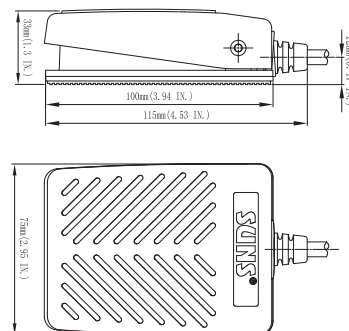
Selection Guide:

FS - 81	- G	- W	- H1	- N	- M	- B1	- 8	- F - 24/3
Number of Pedals	Guard		H1: 10-30VDC switch input H2: 4.5-10.5VDC analog input H3: 30VAC analog input H5: 10-30VDC input analog output 0-5V H10: 10-30VDC input analog output 0-10V		Pedal Material	Optional Pushbutton Length	Cable Length	Additional Wiring Information e.g. 24AWGx3
81: 1 pedal 82: 2 pedals 83: 3 pedals 84: 4 pedals	Blank: No guard G: Fully guarded	Blank: No base W: With Base		N: N pole induction S: S pole induction	Blank: Fiber reinforced plastic M: Die cast zinc alloy	Blank: No button B1: One button B2: Two buttons		Blank: Meter(s) F: Foot/feet



Dimensions:

FS-81-H2-N-2-24/3



FS-81-H1-B2



FS-82-W-H2-N-2-24/6



* Dimensions refer to page 7 and 8

FS-8_R Series Medical Foot Switches (IPX8, Rocker Style)

Features

- Robust glass fiber reinforced plastic
- Compact design
- Pedal rocks left and right for multifunction applications
- Various base options available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/15A 1/2HP 250VAC
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	IPX8

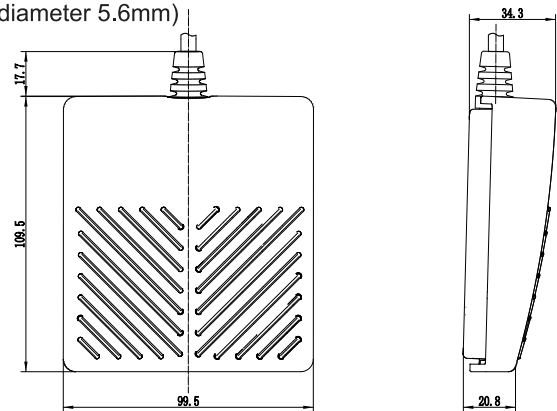
Selection Guide:

FS-	8_R	-	G	-	10W	-	W	-	M	-	B1	-	8	-	F	-	22/5S	-	(S)
			Guard		IP Rating				Pedal Material		Options		Cable Length			Additional Wiring Information			
	81R: 1 Pedal				10: IP20		Blank: No base		Blank: Fiber reinforced plastic		Blank: No button					Blank: Meter(s)		Blank: Large base	
	82R: 2 Pedals		Blank: No guard		10W: IPX8		W: Base		M: Die cast zinc alloy		B1: 1 Button					F: Foot/Feet		(S): Small base	
	83R: 3 Pedals		G: Fully guarded								B2: 2 Buttons								
											B3: 3 Buttons								

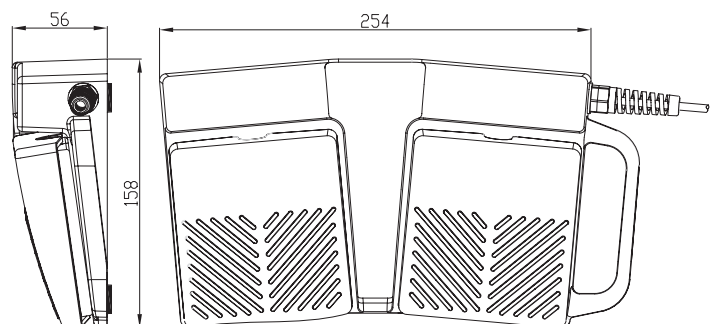
* Standard pedal color: Black

Dimensions:

FS-81R-10W-2-20/4S (20AWGx4, shielded, 1NO/1NC, cable diameter 7.0mm)
FS-81R-10W-2-22/5S (22AWGx5, shielded, 1NO/1NC, cable diameter 5.6mm)



FS-82R-10W-2-22/5S (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)
FS-82R-10W-B1-26/7 (26AWGx7, PUR, coiled, 3x 1NO, cable diameter 5.3mm)
FS-82R-10W-B2-26/7 (26AWGx7, PUR, coiled, 4x 1NO, cable diameter 5.3mm)

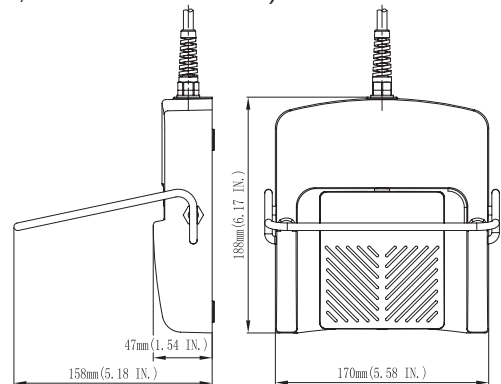


FS-8_R Series Medical Foot Switches (IPx8)

FS-81R-10W-W-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
 FS-81R-10W-W-B1-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
 FS-82R-10W-W-B1-22/5S (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
 FS-82R-10W-W-B2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)



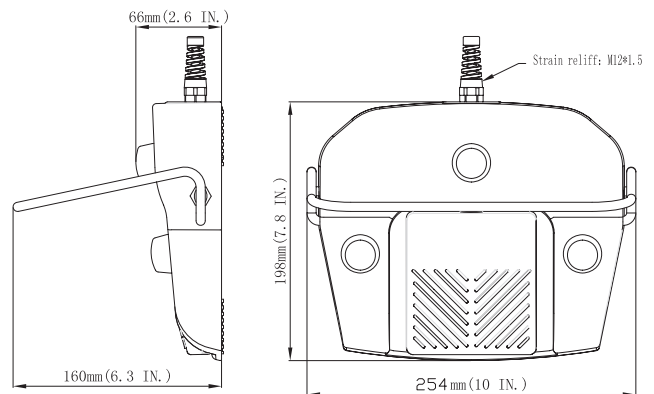
Unitary aluminium alloy base



FS-81R-SP-W-B3-2-26/7 (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)



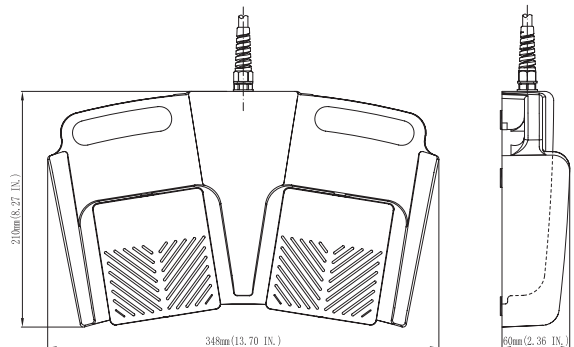
Unitary aluminium alloy base



FS-82R-10W-W-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
 FS-82R-10W-W-B1-2-26/7 (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)



Unitary aluminium alloy base



FS-21 Series Medical Foot Switches (IPX8)

Features

- Robust glass fiber reinforced plastics
- Compact design
- Galvanically separated contacts with double-break
- Various base options available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/15A 1/2HP 250VAC
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 ⁶ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

Selection Guide:

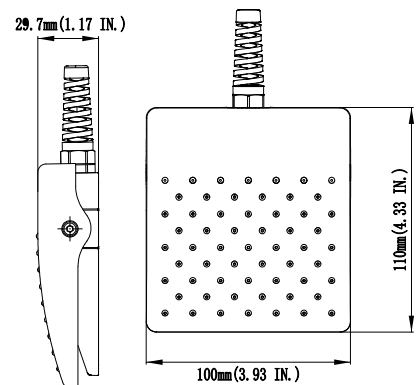
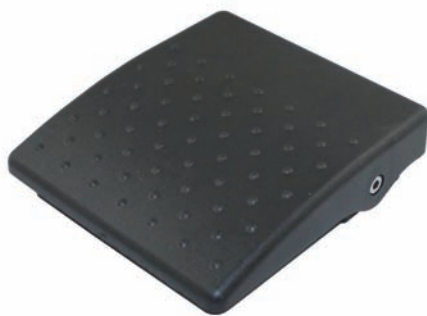
FS	-	21	-	10W	-	T	-	W	-	M	-	B1	-	8	-	F	-	22/5S	-	(S)
				IP Rating		Contact Type				Pedal Material		Options		Cable Length		Additional Wiring Information				
		21: 1 Pedal				Blank: SPDT		Blank: NO base		Blank: Fiber reinforced plastic		Blank: No button				Blank: Meter(s)		Blank: Large base		
		22: 2 Pedals		10W: IPX8		T: DPDT (2NO/2NC)		W: With Base		M: Die cast zinc alloy		B1: Middle button				F: Foot/Feet		(S): Small base		
		23: 3 Pedals				S: DPDT (2-stage)						B2: Left and Right Buttons								
		24: 4 Pedals										B3: 3 Buttons								

* Standard pedal color: Black

Dimensions:

FS-21-10W-2-20/4S (20AWGx4, shielded, 2 meters, 1NO/1NC, cable diameter 7.0mm)

FS-21-10W-2-22/5S (22AWGx5, shielded, 2 meters, 1NO/1NC, cable diameter 5.6mm)

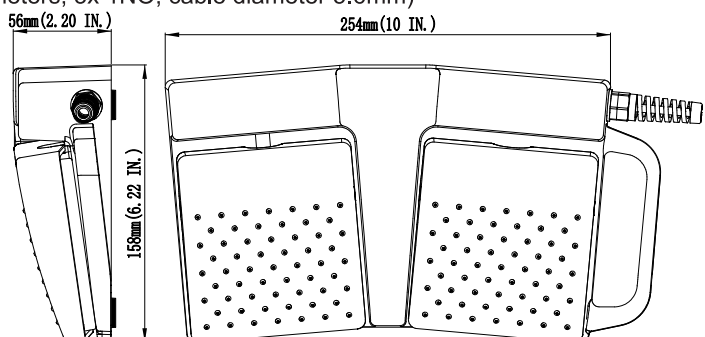


FS-22-10W-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)

FS-22-10W-2-22/5S (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)

FS-22-10W-B1-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)

FS-22-10W-B1-2-22/5S (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)

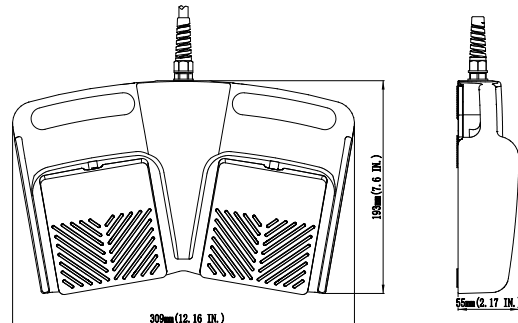


FS-8_R Series Medical Foot Switches (IPx8)

FS-82R-10W-W-2-22/5S(S) (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
 FS-82R-10W-W-B1-2-26/7(S) (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)



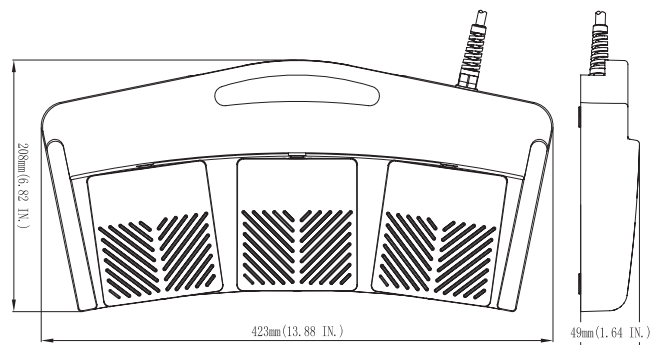
Unitary aluminium alloy base



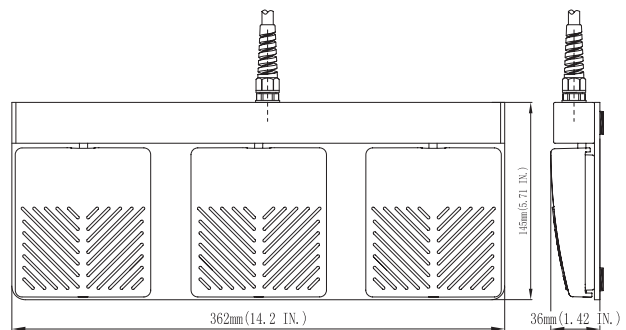
FS-83R-10W-W-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



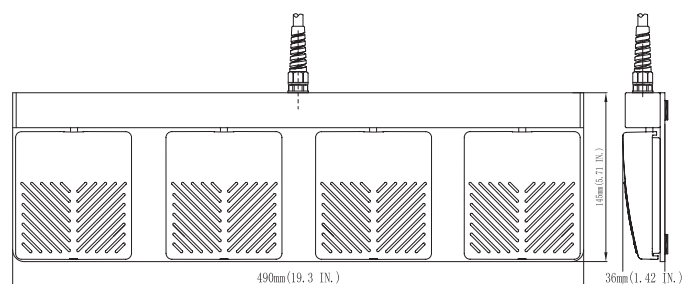
Unitary aluminium alloy base



FS-81R-10W(3-PEDAL) Black (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



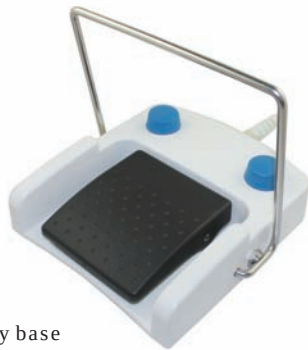
FS-81R-10W(4-PEDAL) (26AWGx9, PUR, coiled, 8x 1NO, cable diameter 5.3mm)



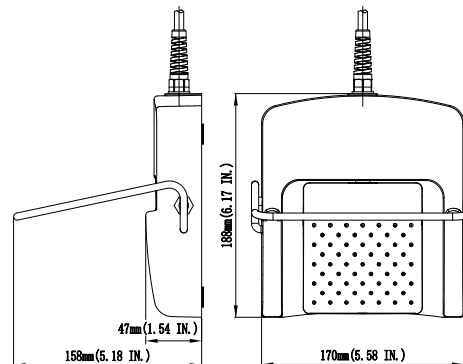
FS-21 Series Medical Foot Switches (IPX8)

FS-21-10W-W-B2-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)

FS-21-10W-W-B2-2-22/5S (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)



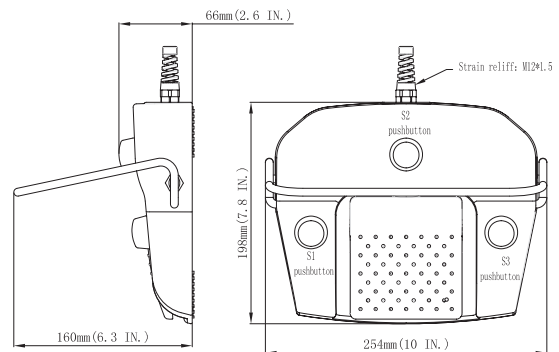
Unitary aluminium alloy base



FS-21-10W-T-W-B3-H-2-26/7 (26AWGx7, PUR, coiled, 2 meters, 5x 1NO, cable diameter 5.3mm)



Unitary aluminium alloy base

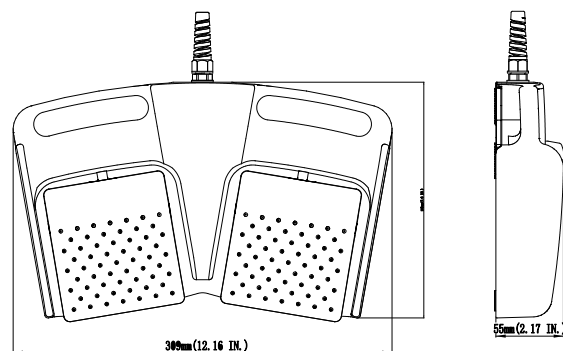


FS-22-10W-W-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)

FS-22-10W-W-2-22/5S (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)



Unitary aluminium alloy base

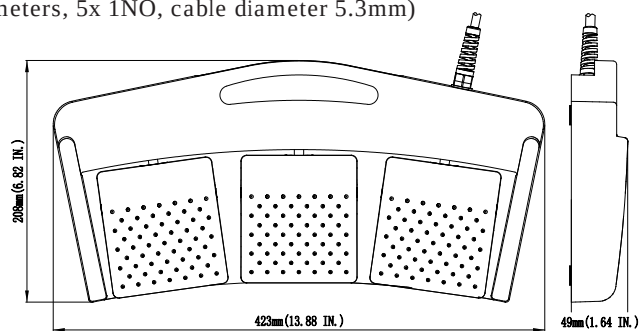


FS-23-10W-W-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)

FS-23-10W-W-B2-2-26/7 (26AWGx7, PUR, coiled, 2 meters, 5x 1NO, cable diameter 5.3mm)



Unitary aluminium alloy base



MED-170 Low Profile/Omni-Directional Medical Foot Switches (IPX8)

Features

- 360° actuation
- High mechanical stability
- Aluminum alloy die cast body
- Custom color available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	5A or 10A 0-250V
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 2 x10 ⁶ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IP68 (NEMA 4, 4x, 6, 6P)

Dimensions:

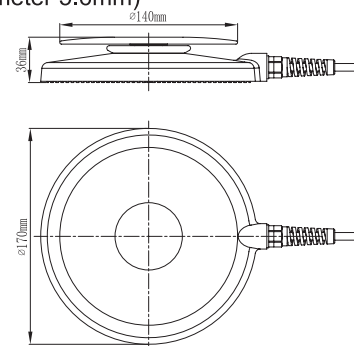
Selection Guide:

MED-170	-	G	10	-	T	-	8	-	F	-	20/4S
110mm diameter 170mm diameter		Guard		Contact Type		Cable Length					Additional Wiring Information 20AWGx4 shielded
		Blank: No guard G: Fully guarded		Blank: SPDT T: DPDT (2NO/2NC)					Blank: Meter(s) F: Foot/Feet		

MED-170-10-2-18/3 (18AWGx3, 2 meters, 1x 1NO)

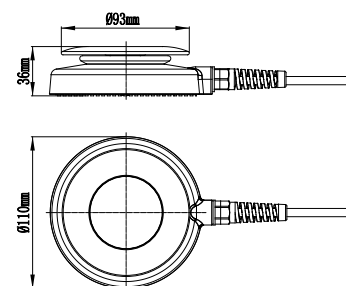
MED-170-10-T-2-20/4S (20AWGx4, shielded, 2 meters, 2NO/2NC, cable diameter 7.0mm)

MED-170-10-T-2-22/5S (22AWGx5, shielded, 2 meters, 2NO/2NC, cable diameter 5.6mm)



MED-110-10-2-18/3 (18AWGx3, 2 meters, 1x 1NO)

MED-110-10-T-2-22/5S (22AWGx5, shielded, 2 meters, 2NO/2NC, cable diameter 5.6mm)



FCP Series Surgical Microscope Foot Switch

Features

- High strength alloy plastic
- Use the central pedal to control zoom and focus
- The lever is used for microscopical positioning
- 6 additional buttons that can be specified
- Protection level IP X8
- Easy to clean
- Custom label
- RAL color is available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC or 10A/15A 250VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x10 ⁶ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IPX8

Selection Guide:

FCP- 14 -

8-14 Function keys optional

8
Cable
Length

F - 22/5S

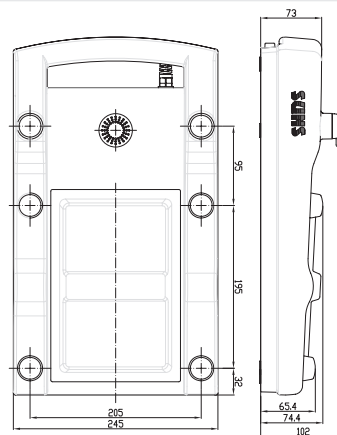
Additional
Wiring Information
20AWGx4 Shielded

Blank: Meter(s)

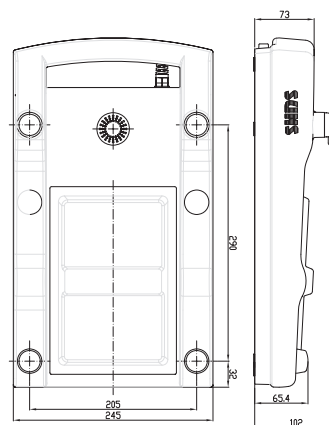
F: Foot/Feet

Dimensions:

FCP-14



FCP-12



FSR Series Medical Foot Switches (IPX8, Rocker Style)

Features

- Aluminium alloy foot pedal
- Compact design
- Pedal rocks left and right for multifunction applications
- Various configurations available

Specifications

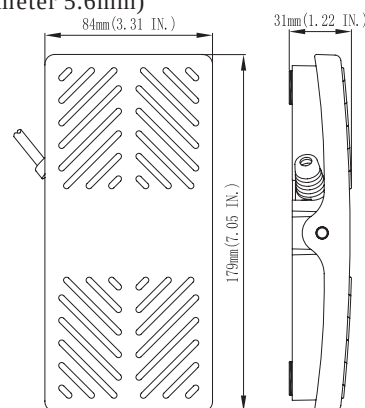
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/15A 1/2HP 250VAC
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current 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	IPX8

Selection Guide:

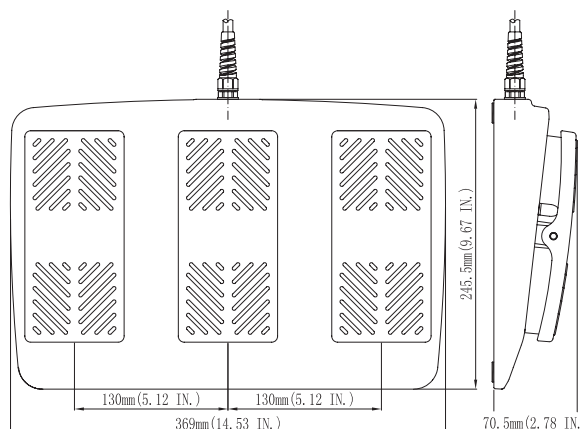
FSR - 21 - 10W - W - T - F1 - B1 8 - F - 22/5S						
20: No Pedal 21: 1 Pedal 22: 2 Pedals 23: 3 Pedals	IP Rating 10W: IPX8	Blank: NO base W: Base	Blank: SPDT T: DPDT (2NO/2NC)	Blank: No Function Keys F1: 4 Direction Keys F2: 4-Way Joystick	Blank: No Buttons B1: 1 Button B2: 2 Buttons B3: 3 Buttons B4: 4 Buttons B5: 5 Buttons B6: 6 Buttons B7: 7 Buttons B8: 8 Buttons B9: 9 Buttons B10: 10 Buttons	Cable Length Blank: Meter(s) F: Foot/Feet Additional Wiring Information 22AWGx5 Shielded

Dimensions:

FSR-21-10W-2-20/4S (20AWGx4, shielded, 2 meters, 1NO/1NC, cable diameter 7.0mm)
 FSR-21-10W-T-2-22/5S (22AWGx5, shielded, 2 meters, 2NO/2NC, cable diameter 5.6mm)

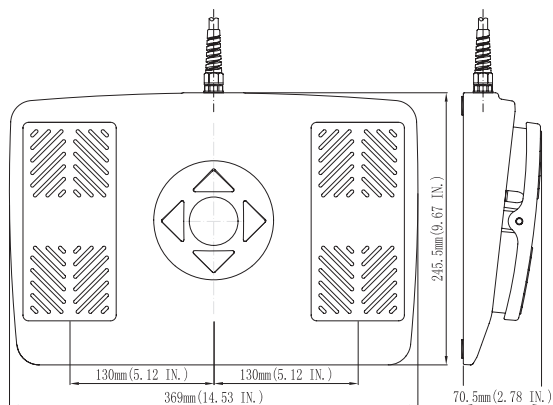


FSR-23-10W-W-2-22/9

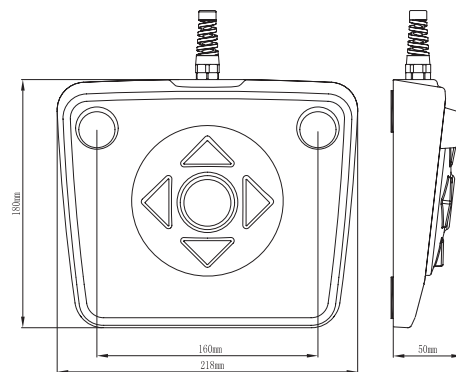


FSR Series Medical Foot Switches (IPX8, Rocker Style)

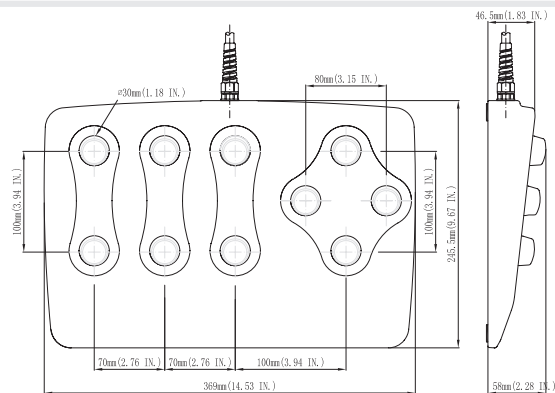
FSR-22-10W-W-F1



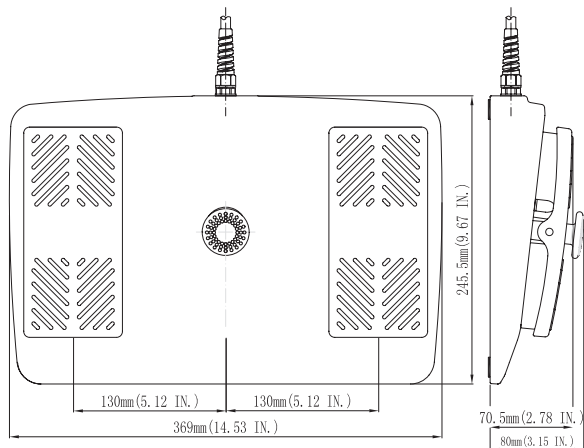
FSR-20-10W-W-F1-B1(B2)



FSR-20-10W-W-B10



FSR-22-10W-W-F2



FS-9 Series Medical Foot Switches (IPx8)

Features

- Robust glass fiber reinforced plastics or zinc die cast body
- UL/CSA/CE/CCC approved
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/250VAC
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	IPX8(NEMA 4, 4X, 6, 6P)

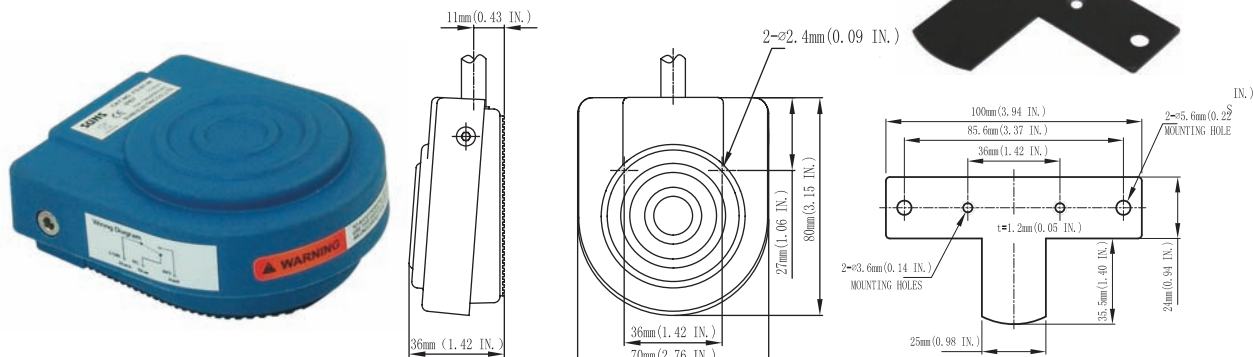
Selection Guide:

FS	-	91	-	G	-	10	W	-	M	-	8	-	F	-	18/3
		Number of Pedals		Guard					Enclosure Type		Cable Length				Additional Wiring Information e.g. 18AWGx3
		91: 1 Pedal							Blank: Fiber reinforced plastic						Blank: Meter(s)
		92: 2 Pedals		Blank: No guard					M: Zinc die cast						F: Foot/feet
				G: Fully guarded											

Dimensions:

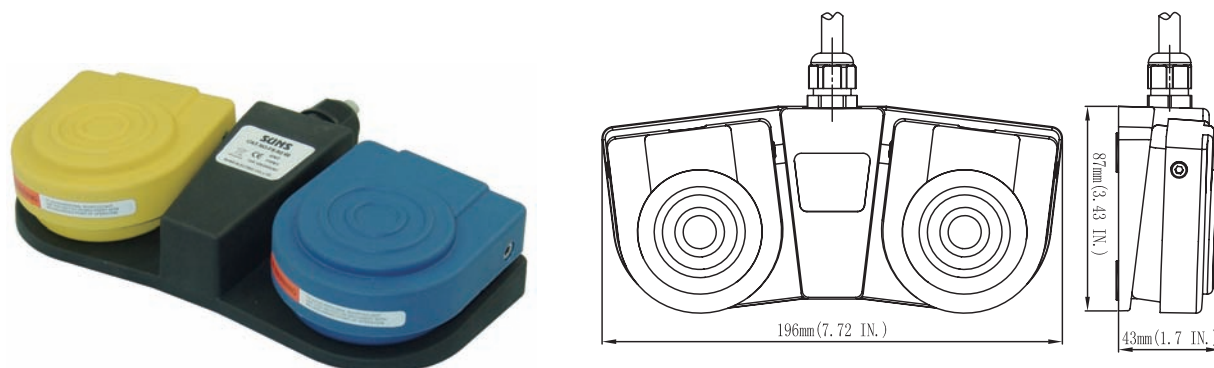
* Standard pedal color: Black

FS-91-10-W-8F-18/2 (18AWGx2, 8ft, 1NO, plastic, cable diameter 7.5mm)
FS-91-10-W-M-8F-18/3 (18AWGx3, 8ft, 1NO, metal, cable diameter 7.5mm)



* Color code: (E.g.suffix:-U for blue)

FS-92-10-W-8F-18/3 (18AWGx3, 8ft, 2x 1NO, plastic, cable diameter 7.8mm)



* Color code: (E.g.suffix:-Y,U/B for yellow/blue pedals on black base)

FS-6 Series Medical Foot Switches

Features

- Robust aluminum alloy die cast body
- Galvanically separated contacts with double-break
- Captive screws for easy wiring
- Positive opening of NC contacts
- UL/CSA/CE and CCC approved
- Threaded hole available in: PG13.5, M20x1.5 and 1/2NPT
- Custom color/wirings available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
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	IPX8

FS-61	-	G	-	SP	-	T	-	C	-	B1
Number of Pedals		Guarding Options		Switch Type		Switch Configuration		Conduit Type		Optional Pushbutton
61: 1 pedal 62: 2 pedals		Blank: No guard G: Fully guarded		SP: 10A snap action SL: 10A slow action		Blank: SPDT T: DPDT S: 2 stages		A: 1/2NPT B: PG13.5 C: M20 x1.5		B1: 1 button B2: 2 buttons

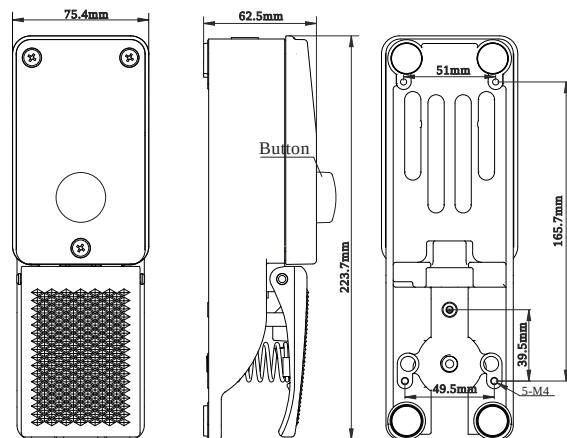
Dimensions:

* Standard color: Pedal:Black; Base: Black; Cover: Orange

FS-61-SP-_-B1(Snap action)
FS-61-SL-_-B1(Slow action)



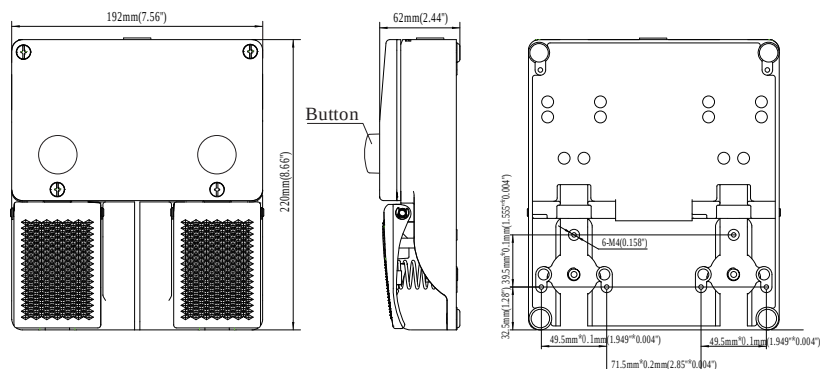
* Color code:
(E.g. suffix: -U/W for blue pedal and medical white base)



FS-62-SP-_-B1(Snap action)
FS-62-SL-_-B1(Slow action)
FS-62-SP-_-B2(Snap action)
FS-62-SL-_-B2(Slow action)



* Color code:
(E.g. suffix: -Y, U/W for yellow/blue pedal and medical white base)



FSC-6 Series Potentiometer Foot Control Pedal

Features

- Robust aluminum alloy die cast body
- 1K, 5K or 10K Ohm potentiometer
- UL, CSA, CE, CCC certified
- Threaded hole available in:
PG13.5, M20x1.5 and 1/2NPT
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<30mΩ (initial)
Rated Current/Voltage	10A/250VAC
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 ⁶ (operations) Electrically 5 x10 ⁵ (operations) Potentiometer 2.5x10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

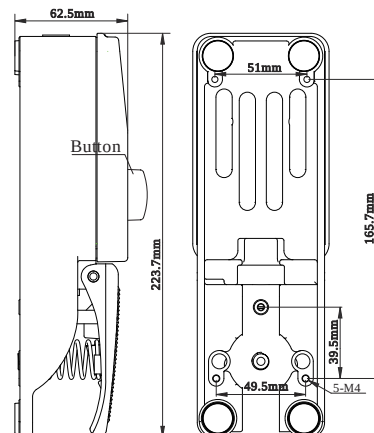
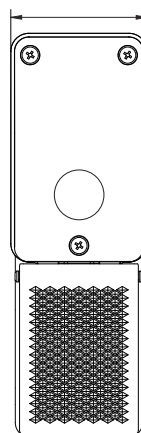
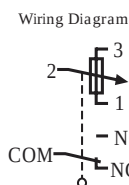
Selection Guide:

FSC-61	-	G	-	2A	-	T	-	C	-	1K	-	B1
Number of Pedals		Guarding Options		Switch Type		Switch Configuration		Conduit Type		Options		Options
61: 1 pedal		Blank: No guard		2A: 2A 250VAC		Blank: SPDT		A: 1/2NPT		1K: 1K potentiometer		Blank: No button
62: 2 pedals		G: Fully guarded		10A: 10A 250VAC		T: DPDT		B: PG13.5		5K: 5K potentiometer		B1: 1 button
								C: M20 x1.5		10K: 10K potentiometer		B2: 2 buttons

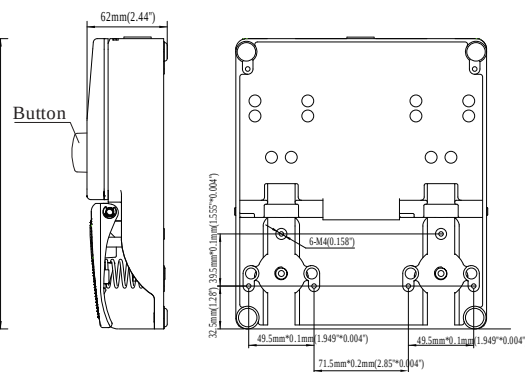
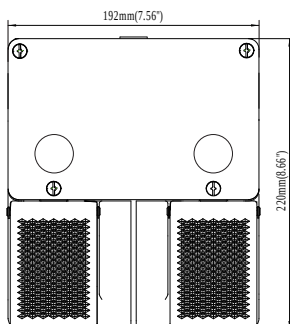
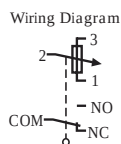
Dimensions:

* Standard color: Pedal:Black; Base: Black; Cover: Orange

FSC-61-2A-_-1K-B1
FSC-61-2A-_-5K-B1
FSC-61-2A-_-10K-B1



FSC-62-2A-_-1K-B2
FSC-62-2A-_-5K-B2
FSC-62-2A-_-10K-B2



FWC-1/FWM-1 Series Potentiometer Foot Control Pedal

Features

- Robust fiber reinforced plastic or aluminum alloy die cast housing
- Advanced ergonomic design
- IP68 water-proof
- 1K, 5K, or 10K Ohm potentiometer
- Wireless option available

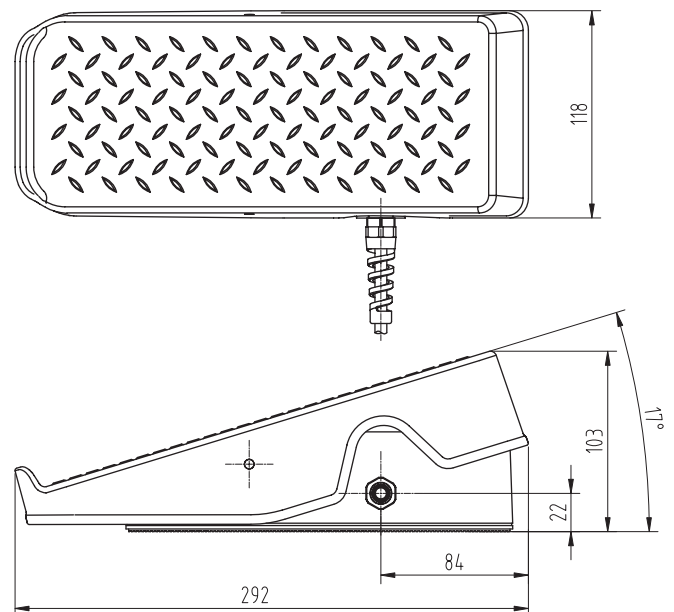
Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<30mΩ (initial)
Rated Current/Voltage	10A/250VAC
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) Potentiometer 2.5 x 10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP68/NEMA 6,6P

Selection Guide:

FWC-1	-	-	1K	-	25F	-	18/5-SOOW
Protective covering material		Number of Switches	Options		Cable Length		Additional Wiring Information
FWC-1: Plastic		Blank: 1 Switch	1K: 1K potentiometer				
FWM-1: Metal		T: 2 Switches	5K: 5K potentiometer				
			10K: 10K potentiometer				

Dimensions:



FS-6 Series Linear Hall Effect Foot Switches (IP68)

Features

- Robust aluminum alloy die cast body
- Linear output or switch output
- Output can be directly connected to most electronics circuitry such as microprocessors integrated logic, discrete transistors and SCRs with compatible voltage specifications

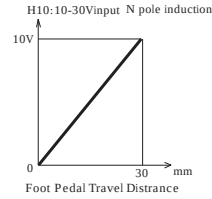
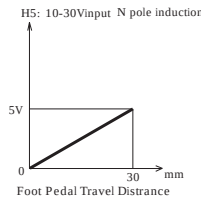
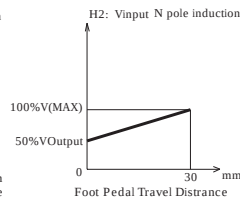
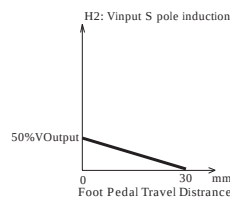
Specifications

Supply Voltage (Vs)	Switch output H1: 3.8-30VDC Analog output H2: 4.5-10.5 VDC H3: 30VAC H5/H10: 10-30 VDC
Supply Current	H1: 45mA H2: 7mA H3: 20mA H5/H10: 16mA
Output Type	Linear output or switch output
Output Voltage	See the graph below
Output Current	H2/H3: 5mA H5/H10: 20mA H5/H10: 45mA
Service Life	1 x 10 ⁷ (operations)
Operating Temperature	-40~+100°C (-40~212°F)
Degree of Protection	IP68

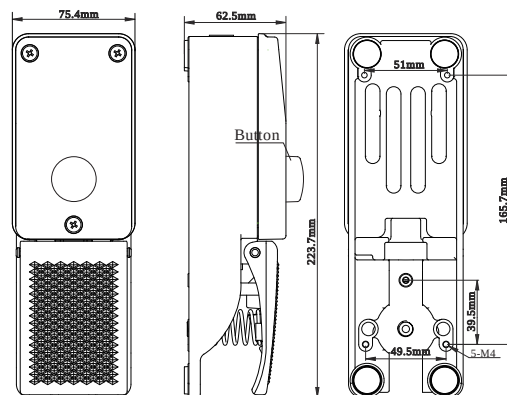
Selection Guide:

FS - 61 - G - H1 - N - A - B1 - 8 - F - 24/3							
Number of Pedals	Guard	H1: 10-30VDC switch input H2: 4.5-10.5VDC analog input H3: 30VAC analog input H5: 10-30VDC input analog output 0-5V H10: 10-30VDC input analog output 0-10V	N: N pole induction S: S pole induction	Conduit Type	Optional Pushbutton	Cable Length	Additional Wiring Information e.g. 24AWGx3
61: 1 pedal 62: 2 pedals	Blank: No guard G: Fully guarded			A: 1/2NPT C: M20 x 1 D: M16 x1.5	Blank: No button B1: One button B2: Two buttons		Blank: Meter(s) F: Foot/feet

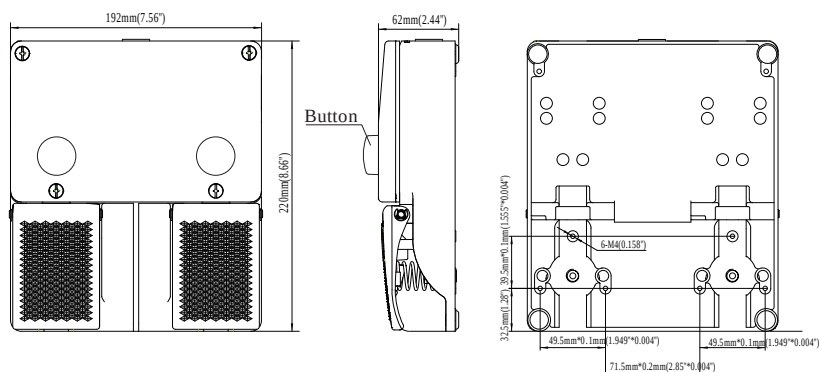
Dimensions:



FS-61-H2-N-C-2-24/3
FS-61-H2-N-C-B1-2-24/6



FS-62



FS-71 Series Medical Foot Switches

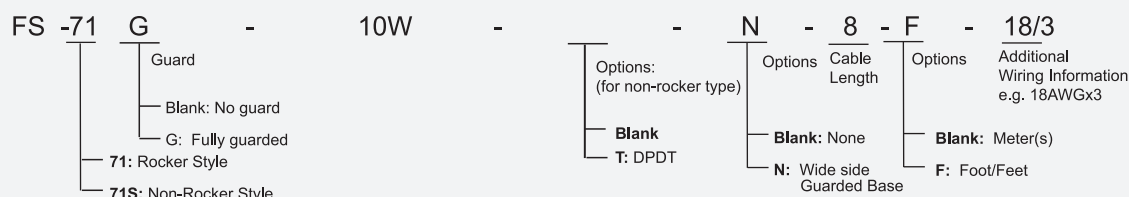
Features

- Robust glass fiber reinforced plastic housing
- Each pedal rocks left and right operating on the teeter-totter principle: Pressure on one side opens or closes line and release of returns the switch back to normal off position (Both sides are independent)
- UL, CSA, CE, CCC certified
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MW@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/15A 1/2HP 250VAC (UL file E321073)
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	IPX8/NEMA 4,4X,6,6P (add -w suffix)

Selection Guide:



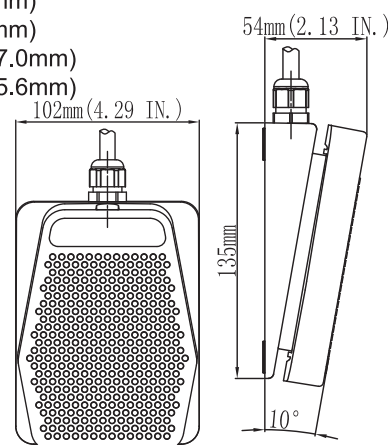
Dimensions:

FS-71-10-W-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)

FS-71-10-W-2-22/5S (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)

FS-71S-10-W-2-20/4S (20AWGx4, shielded, 2 meters, 1NO/1NC, cable diameter 7.0mm)

FS-71S-10-W-2-22/5S (22AWGx5, shielded, 2 meters, 1NO/1NC, cable diameter 5.6mm)

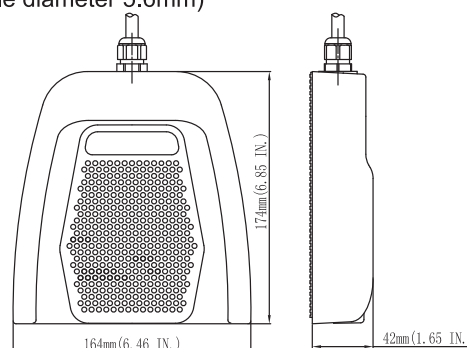


FS-71-10-W-N-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)

FS-71-10-W-N-2-22/5S (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)

FS-71S-10-W-N-2-20/4S (20AWGx4, shielded, 2 meters, 1NO/1NC, cable diameter 7.0mm)

FS-71S-10-W-N-2-22/5S (22AWGx5, shielded, 2 meters, 1NO/1NC, cable diameter 5.6mm)



FS73/FS74 Series Medical Foot Switches

Features

- Robust glass fiber reinforced plastic housing
- Available in single momentary action or rocker (left and right) styles

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MW@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/15A 1/2HP 250VAC
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	IPX8/NEMA 4,4X,6,6P (add -w suffix)

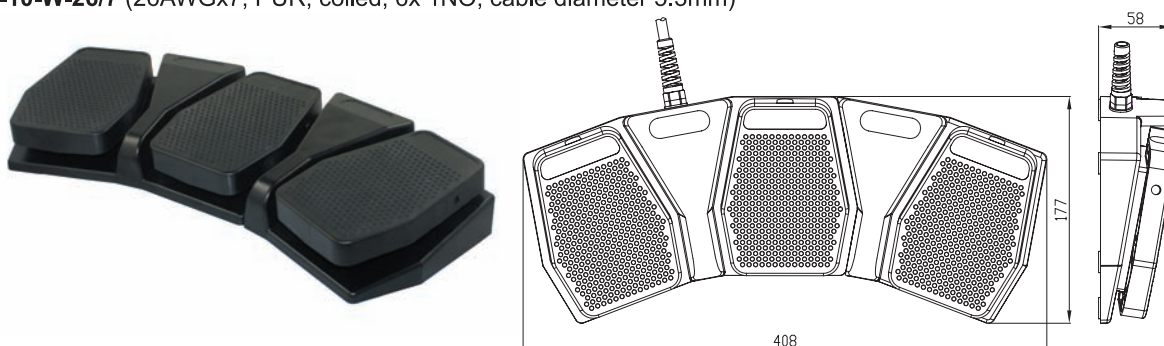
Selection Guide:

FS-73	-	10W	-	-	-	B1	-	H	-	8	-	F	-	18/3
				Options		Options		Options		Cable Length				Additional Wiring Information 20AWGx4 Shielded
73: Rocker Style				Blank		Blank: No Button		Blank: No handler				Blank: Meter(s)		
73S: Non-Rocker Style				T: DPDT		B1: 1 Button		H: With Handler				F: Foot/Feet		
74: Rocker Style						B2: 2 Buttons								
74S: Non-Rocker Style						B3: 3 Buttons								

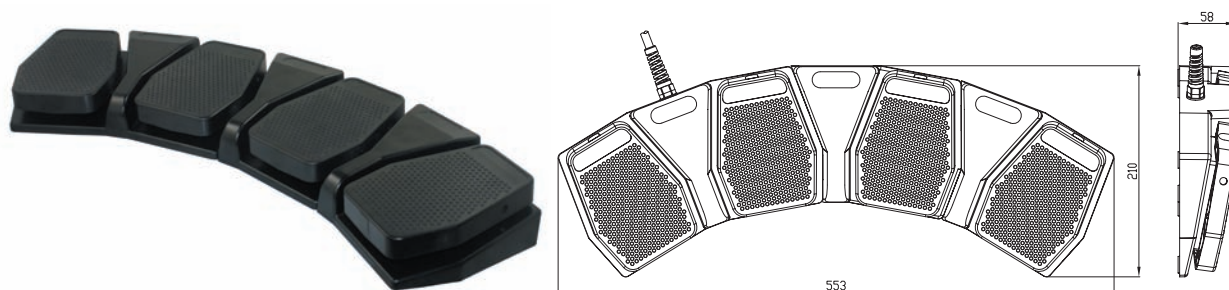
Dimensions:

* Offer custom cable and connector according to customer requirements.

FS-73S-10-W-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
 FS-73S-10-W-2-22/5S (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
 FS-73S-10-W-B1-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
 FS-73-10-W-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



FS-74S-10-W-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
 FS-74S-10-W-B1-26/7 (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)
 FS-74S-10-W-B2-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



FS-72 Series Medical Foot Switches

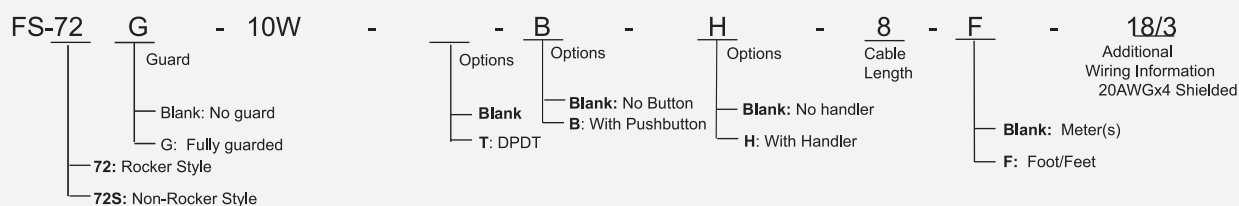
Features

- Robust glass fiber reinforced plastic housing
- Each pedal rocks left and right operating on the teeter-totter principle: Pressure on one side opens or closes line and release of returns the switch back to normal off position (Both sides are independent)
- UL, CSA, CE, CCC certified
- Custom color/wiring available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MW@500V DC
Contact Resistance	<25mW (initial)
Rated Current/Voltage	10A/15A 1/2HP 250VAC
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	IPX8/NEMA 4,4X,6,6P (add -w suffix)

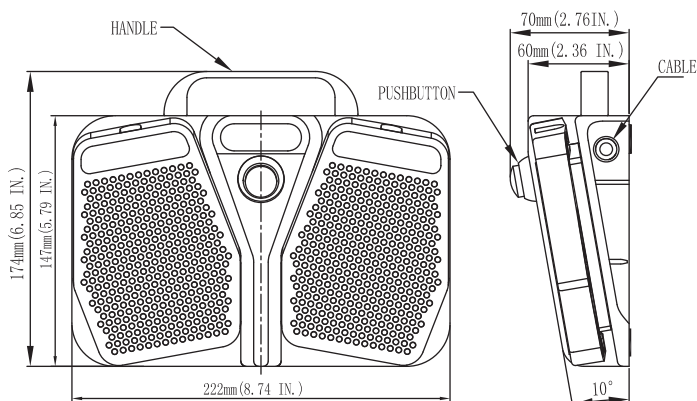
Selection Guide:



* Offer custom cable and connector according to customer requirements.

Dimensions:

- FS-72-10-W-2-22/5S** (Rocker Style, 22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
FS-72-10-W-H-2-22/5S (Rocker Style, 22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm, With Handler)
FS-72-10-W-B-26/7 (Rocker Style, 26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm, With Pushbutton)
FS-72-10-W-B-H-26/7 (Rocker Style, 26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm, With Pushbutton, With Handler)
FS-72S-10-W-2-20/4S (Non-Rocker Style, 20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
FS-72S-10-W-2-22/5S (Non-Rocker Style, 22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)
FS-72S-10-W-B-2-20/4S (Non-Rocker Style, 20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm, With Pushbutton)
FS-72S-10-W-B-2-22/5S (Non-Rocker Style, 22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm, With Pushbutton)
FS-72S-10-W-B-H-2-20/4S (Non-Rocker Style, 20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm, With Pushbutton, With Handler)
FS-72S-10-W-B-H-2-22/5S (Non-Rocker Style, 22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm, With Pushbutton, With Handler)



FSBM-1 Series Medical Foot Switches

Features

- Zinc die cast base
- Compact size
- Ergonomic low profile design
- Easy to clean
- High mechanical stability
- Soft touch button with light operating force

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	5A or 10A 0-250V
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x10 ⁶ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IP68 (NEMA 4, 4x, 6, 6P)

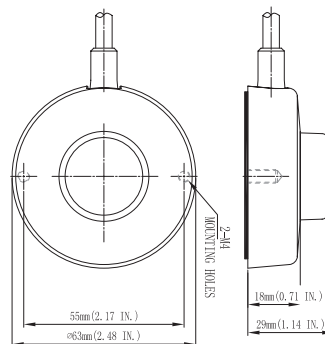
Selection Guide:

FSBM-1	G	-	10	-	T	-	8	-	F	-	18/3	-	(S)
	Guard				Contact Type		Cable Length				Additional Wiring Information 18AWGx3		
	Blank: No guard				Blank: SPDT				Blank: Meter(s)				Blank: Large base
	G: Fully guarded				T: DPDT (2NO/2NC)				F: Foot/Feet				(S): Small base

Dimensions:

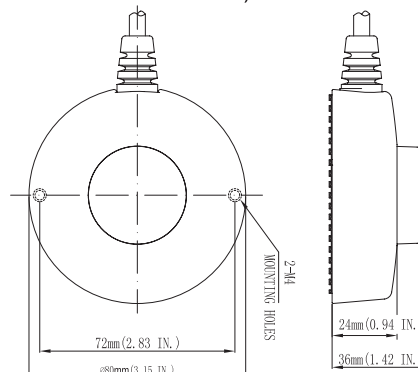
FSBM-1-10-2-18/3 (18AWGx3, 2 meters, 1x 1NO)

FSBM-1-10-T-2-20/4S (20AWGx4, shielded, 2 meters, 2NO/2NC, cable diameter 7.0mm)



FSBM-1-10-2-18/3(80) (18AWGx3, 2 meters, 1x 1NO)

FSBM-1-10-T-2-22/5S(80) (22AWGx5, shielded, 2 meters, 2NO/2NC, cable diameter 5.6mm)



FSB-2/3 Series Medical Foot Switches

Features

- Ergonomic low profile design
- Button available 2 to 3
- Easy to clean
- High mechanical stability
- Soft touch button with light operating force

Specifications

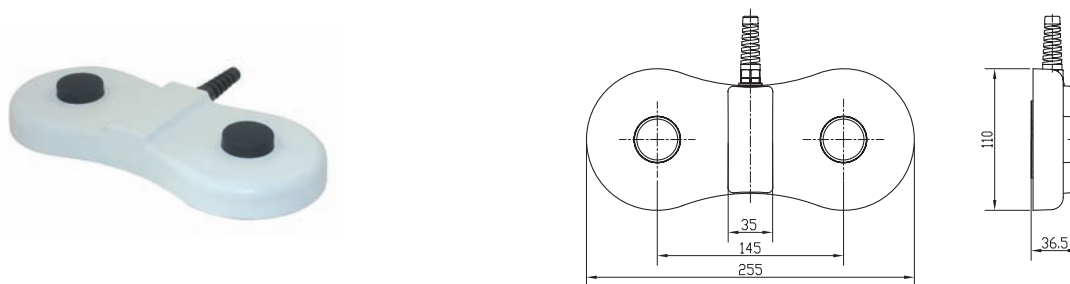
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A, 1/2HP, 125/250VA
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x 10 ⁶ (operations) Electrically 5 x 10 ⁵ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IP68 (NEMA 4, 4x, 6, 6P)

Selection Guide:

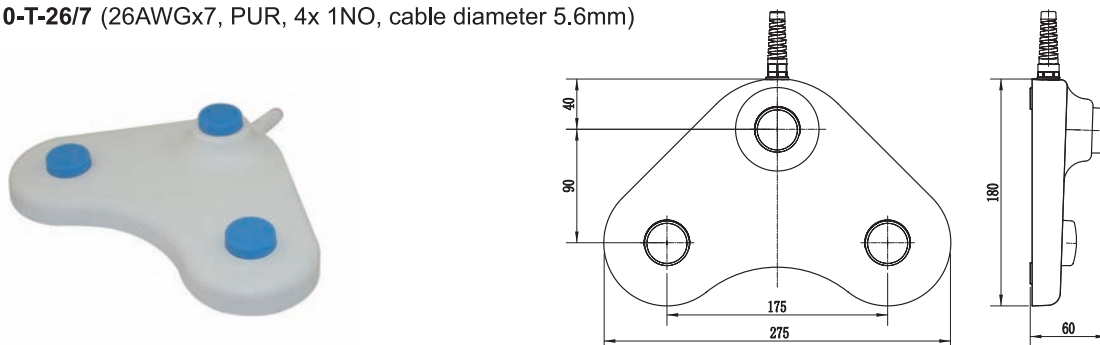
FSB - 2	G - 10 - T	8	F - 20/4S
2: 2 buttons 3: 3 buttons	- Guard - Blank: No guard - G: Fully guarded	- Contact Type - Blank: SPDT - T: DPDT (2NO/2NC)	- Cable Length - Blank: Meter(s) - F: Foot/Feet

Dimensions:

FSB-2-10-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
FSB-2-10-2-22/5S (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)
FSB-2-10-T-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)



FSB-3-10-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
FSB-3-10-2-22/5S (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
FSB-3-10-T-26/7 (26AWGx7, PUR, 4x 1NO, cable diameter 5.6mm)



FSB-6 Medical Footswitches (IPX8)

Features

- Ergonomic low profile design
- Button available 3 to 8
- Easy to clean
- High mechanical stability
- Soft touch button with light operating force

Specifications

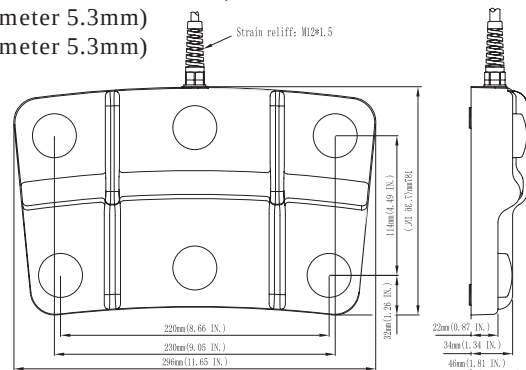
Operating Frequency	60 ops/min
Insulation Resistance	>100M Ω @500V DC
Contact Resistance	<25m Ω (initial)
Rated Current/Voltage	15A, 1/2HP, 125/250VAC or 20A 1HP 125VAC, 2HP 250VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x10 ⁶ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IP68 (NEMA 4, 4x, 6, 6P)

Selection Guide:

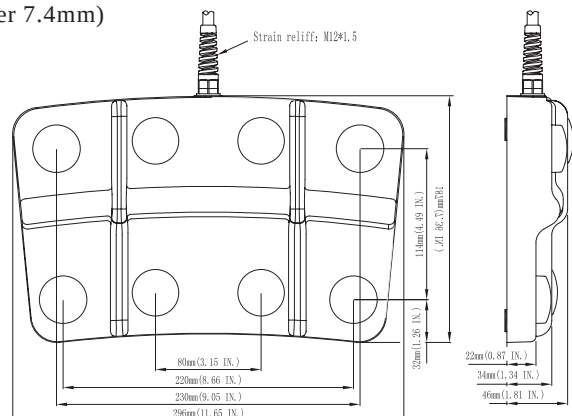
FSB - 63 - 10 -	T -	8	F - 20/4S
Switch Type	Contact Type	Cable Length	Additional Wiring Information
63: 3 buttons	Blank: SPDT		20AWGx4 Shielded
64: 4 buttons	T: DPDT (2NO/2NC)		Blank: Meter(s)
65: 5 buttons			F: Foot/Feet
66: 6 buttons			
68: 8 buttons			

Dimensions:

FSB-63-10-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
 FSB-64-10-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
 FSB-65-10-2-26/7 (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)
 FSB-66-10-2-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



FSB-68-10-2-22/9 (22AWG, coiled, 8x 1NO, cable diameter 7.4mm)



FS-62 Series Wireless Medical Foot Switches

Features

- 2.4GHz RF wireless
- Clean up cable clutter
- Easy to clean and move around
- Multiple systems can be used in close vicinity
- Use Frequency-hopping spread spectrum (FHSS) RFID technology
- Transmitter powered by 2 AA batteries, with low voltage alerts
- Long battery life

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Receiver output 10A/250VAC
Service Life	Mechanically 1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Protocols	IEC802.15.1
Standards	EN 300 328,V1.7.1, EN612326-1(2006); EN 301 489-1,V.1.8.1 EN301 489-17,V2.1.1
Degree of Protection	IPX8

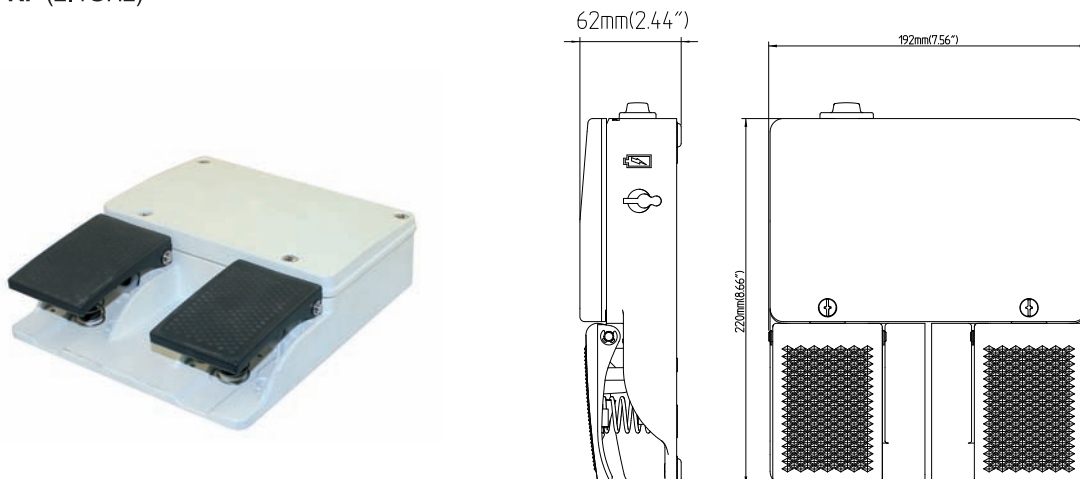
Selection Guide:

FS-62	G	-	RF	-	-	-	US
	Guarding Options		Wireless Technology		Range	Options	
	Blank: No guard		RF: 2.4GHz RF		Blank: 10 meters	Blank: No button	Blank: RCV-RF-10A-6
	G: Fully guarded				E: 100 meters	B1: 1 button	USB: RCV-RF-USB
						B2: 2 Buttons	1A: RCV-RF-1A-6
						B3: 3 Buttons	2: RCV-RF
							Blank: No Charger
							US: US Style Charger
							EU: European Style
							UK: UK Style

* For more receiver modules, please go to page 35

Dimensions:

FS-62-RF (2.4GHz)



Standard Receiver Module

RCV-RF-6



Power supply: 10-30VAC/DC
Output rating: 10A/250V

RCV-RF-USB



Power supply: 4.75-5.25VDC

RCV-RF-1A-6 RCV-RF-1AP-6 RCV-RF-1AN-6



Power supply: 5-30VAC/DC
Output: 1A switch volume or 1A NPN or 1A NPN optional

RCV-RF

1-6 channels are optional and can be customized according to customer requirements



Power supply: 3.3VDC
Output: 6mA IC level change
Power supply: 5VDC/10-30VDC
Output: 1A switch volume or 1A NPN or 1A NPN optional

* Contact us for custom circuit for OEM applications

FS-8 Series Wireless Medical Foot Switches (IPX8)

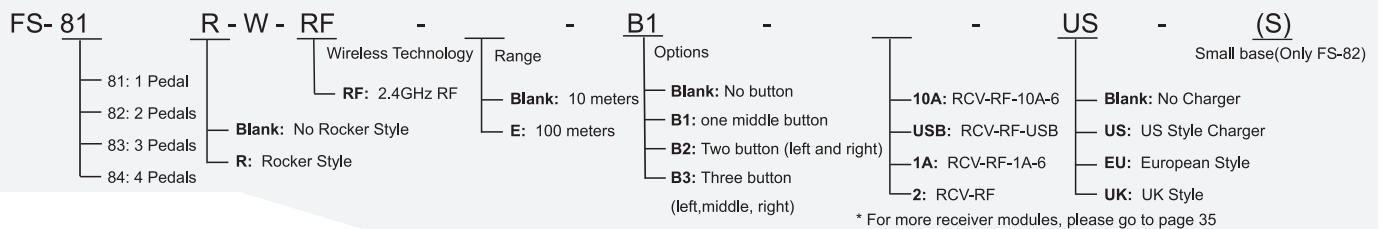
Features

- 2.4GHz RF wireless
- Clean up cable clutter
- Easy to clean and move around
- Multiple systems can be used in close vicinity
- Use Frequency-hopping spread spectrum (FHSS) RFID technology
- Transmitter powered by 2 AA batteries, with low voltage alerts
- Long battery life

Specifications

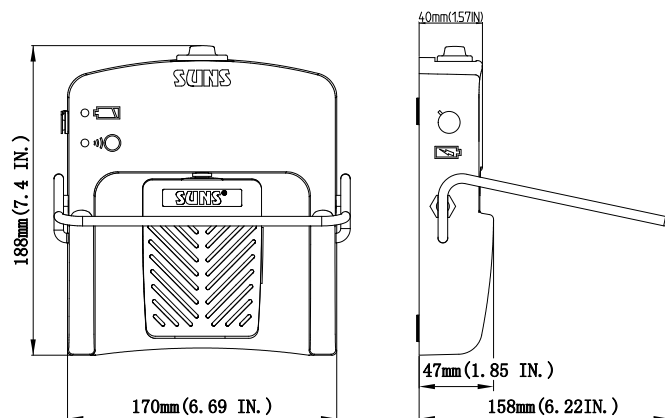
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Receiver output 10A/250VAC
Service Life	Mechanically 1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Protocols	IEC802.15.1
Standards	EN 300 328,V1.7.1, EN612326-1(2006); EN 301 489-1,V.1.8.1 EN301 489-17,V2.1.1
Degree of Protection	IP68

Selection Guide:



Dimensions:

FS-81-W-RF



FS-72 Series Wireless Medical Foot Switches (IPX8)

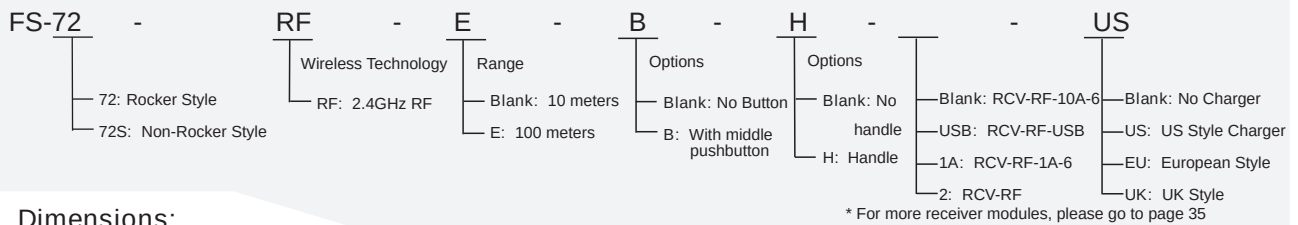
Features

- 2.4GHz RF wireless
- Clean up cable clutter
- Easy to clean and move around
- Multiple systems can be used in close vicinity
- Use Frequency-hopping spread spectrum (FHSS) RFID technology
- Transmitter powered by 2 AA batteries, with low voltage alerts
- Long battery life

Specifications

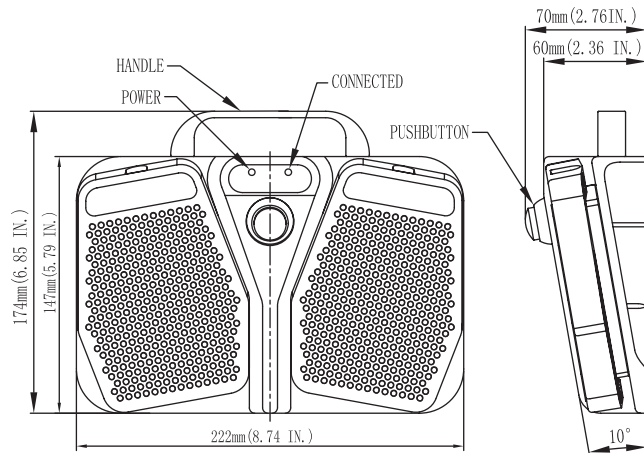
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Receiver output 10A/250VAC
Service Life	Mechanically 1 x10 ⁶ (operations)
Operating Temperature	-10~+80°C (14~176°F)
Transmission Frequency	2.40 - 2.483 GHz
Protocols	IEC802.15.1
Standards	EN 300 328,V1.7.1, EN612326-1(2006); EN 301 489-1,V.1.8.1 EN301 489-17,V2.1.1
Degree of Protection	IPX8

Selection Guide:



Dimensions:

FS-72S-RF (2.4GHz, 2 channels)
FS-72S-RF-B (2.4GHz, 3 channels)
FS-72-RF (2.4GHz, 4 channels)
FS-72-RF-B (2.4GHz, 5 channels)



Standard Receiver Module

RCV-RF-6



Power supply: 10-30VAC/DC
Output rating: 10A/250V

RCV-RF-USB



Power supply: 4.75-5.25VDC

RCV-RF-1A-6
RCV-RF-1AP-6
RCV-RF-1AN-6



Power supply: 5-30VAC/DC
Output: 1A switch volume or 1A PNP or 1A NPN optional

RCV-RF

1-6 channels are optional and can be customized according to customer requirements



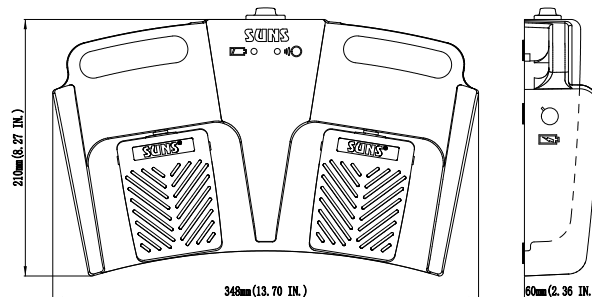
Power supply: 3.3VDC
Output: 6mA IC level change
Power supply: 5VDC/10-30VDC
Output: 1A switch volume or 1A PNP or 1A NPN optional

* Contact us for custom circuit for OEM applications

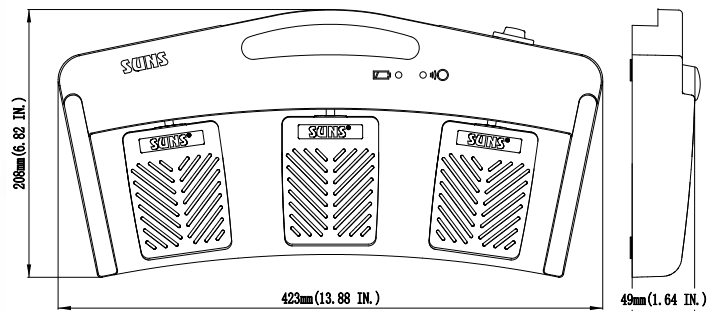
FS-8 Series Wireless Medical Foot Switches (IPX8)

Dimensions:

FS-82-W-RF



FS-83-W-RF



Standard Receiver Module

RCV-RF-6



Power supply: 10-30VAC/DC
Output rating: 10A/250V

RCV-RF-USB



Power supply: 4.75-5.25VDC

RCV-RF-1A-6
RCV-RF-1AP-6
RCV-RF-1AN-6



Power supply: 5-30VAC/DC
Output: 1A switch volume or 1A PNP or 1A NPN optional

RCV-RF

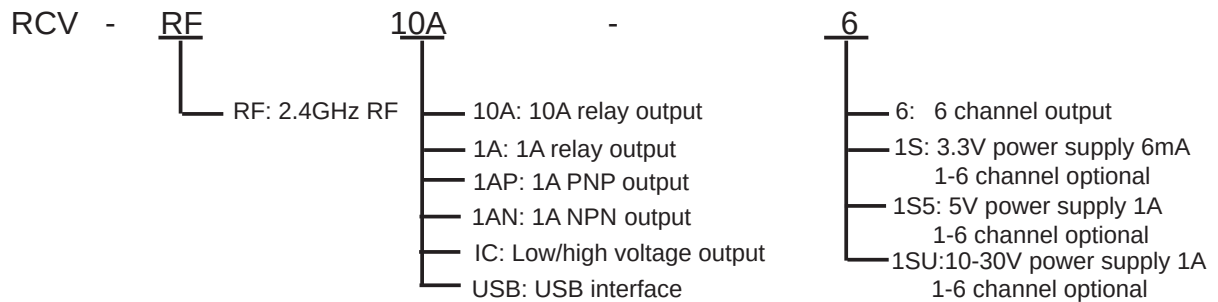
1-6 channels are optional and can be customized according to customer requirements



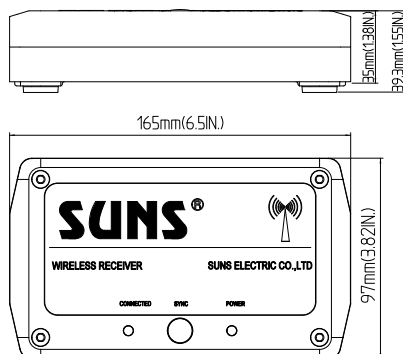
Power supply: 3.3VDC
Output: 6mA IC level change
Power supply: 5VDC/10-30VDC
Output: 1A switch volume or 1A PNP or 1A NPN optional

* Contact us for custom circuit for OEM applications

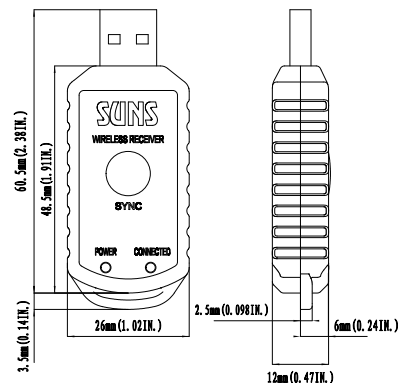
Standard Receiver Module



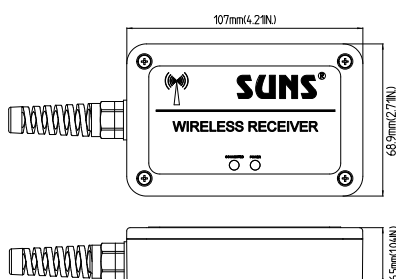
RCV-RF-10A-6
Power supply: 10-30VAC/DC
Output rating: 10A/250V



RCV-RF-USB
Power supply: 4.75-5.25VDC



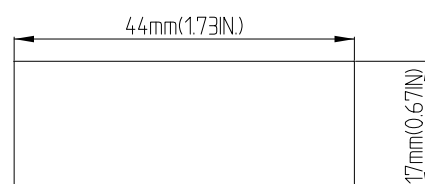
RCV-RF-1A-6
RCV-RF-1AP-6
RCV-RF-1AN-6
Power supply: 5-30VAC/DC
Output: 1A switch volume or 1A PNP or 1A NPN optional



RCV-RF
1-6 channels are optional and can be customized according to customer requirements



Power supply: 3.3VDC
Output: 6mA IC level change
Power supply: 5VDC/10-30VDC
Output: 1A switch volume or 1A PNP or 1A NPN optional



Medical Grade USB Foot Switches

The USB foot switch is an additional input device that provides a more comfortable and convenient way to work with computers. Users can program a unique key or multiple keys with the provided software to the foot switches.

Features

- Available in Single, Twin & 3-Pedals
(If more than 3 pedals needed, two foot switches can be used)
- Pre-program key functions on the foot pedal by software
- Only requires a USB interface
- Compatible with Windows OS 2000/XP/Vista/7
- Available with medical grade waterproof pedals
- Switch functions can be assigned using software provided

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Service Life	Mechanically 1 x10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP20/NEMA 1 or IPX8/NEMA 4,4X,6,6P

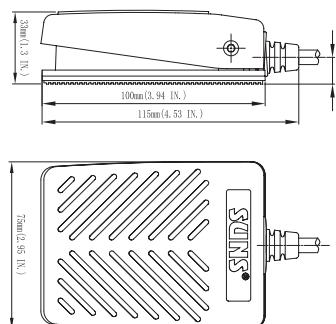
Selection Guide:

FS-81 - SP	-	Twin	-	M	-	USB
Switch Type		Options		Pedal Material		Wiring Information (standard with 3 meters cable)
SP: Snap action (IPx8)		Blank: Single pedal		Blank: Fiber reinforced plastic		
SL: Slow action (IPx8)		Twin: 2-pedal		M: Die cast zinc		
10: Snap action (IP20)		3: 3-pedal				

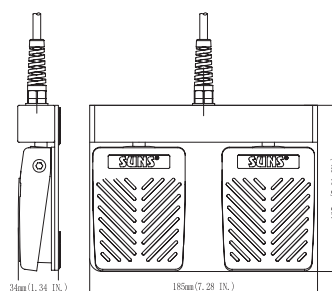
* Although only FS-81 is listed, all Suns medical foot switches are available in USB.

Dimensions:

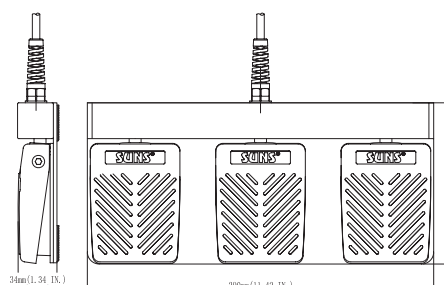
FS-81-10-USB (IP20)
FS-81-SP-USB (IPX8)



FS-81-10-(Twin)-USB (IP20)
FS-81-SP-(Twin)-USB (IPX8)



FS-81-10-(3-Pedal)-USB (IP20)
FS-81-SP-(3-Pedal)-USB (IP68)



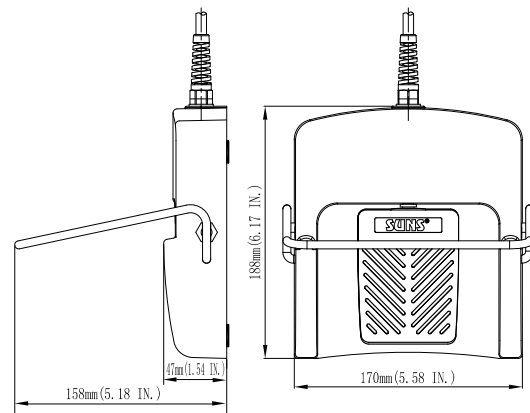
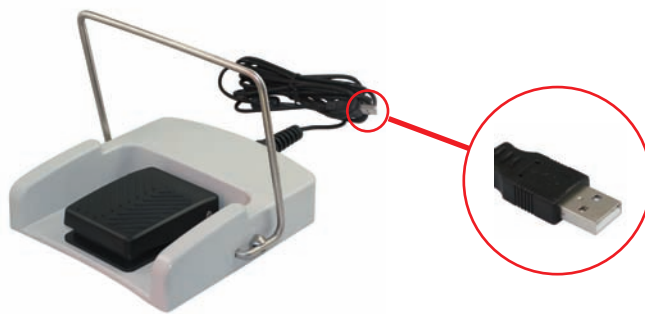
Medical Grade USB Foot Switches

Selection Guide:

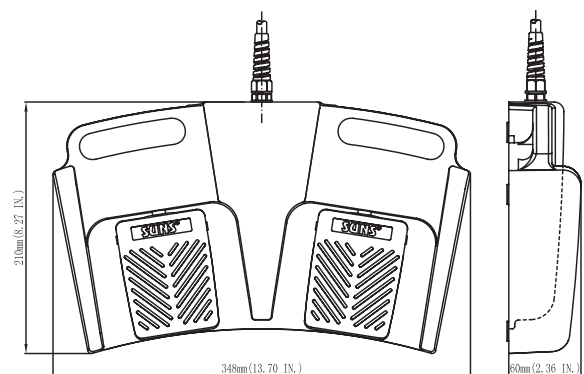
FS-	81	-	SP	-	W	-	M	-	USB
	Options		Switch Type				Pedal Material		Wiring Information
	81: Single pedal		SP:10A Snap action(IPX8)				Blank: Fiber reinforced plastic		(standard with 3 meters cable)
	82: 2-pedal						M: Die cast zinc		
	83*3-pedal								

Dimensions:

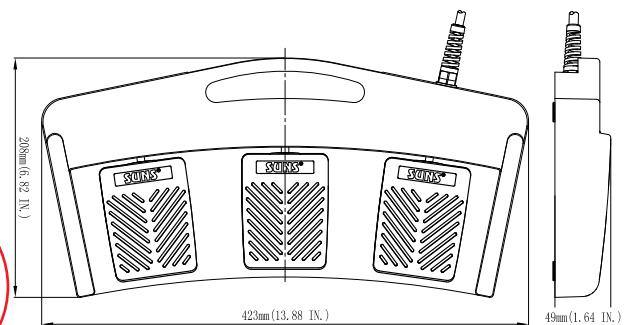
FS-81-SP-W-USB(IPX8)



FS-82-SP-W-USB(IPX8)



FS-83-SP-W-USB(IPX8)



Pneumatic switch series (IPX8)

Features

- Long service life design
- Nonskid base pad
- The two-way model does not exhaust the back pressure
- The plunger will not damage the body
- Standard 1/8-27 N.P.T input and output ports
- Needs filtered and lubricated air supply for best operation
- Line pressure up to 150P

Material Structure

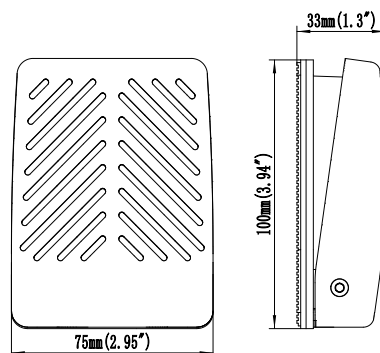
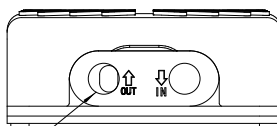
- Aluminum alloy or zinc die cast body
- Internal valve stainless steel plunger
- Press the plunger to release air flow, release the plunger for the flow to stop, and exhaust back pressure on output side
- Air flow exhausts around the plunger
- Operating temperature 0° to 131°F(-18° to +55°C)

Dimensions:

FS-81-C2



Pneumatic module
2-1/8NPT Screw hole



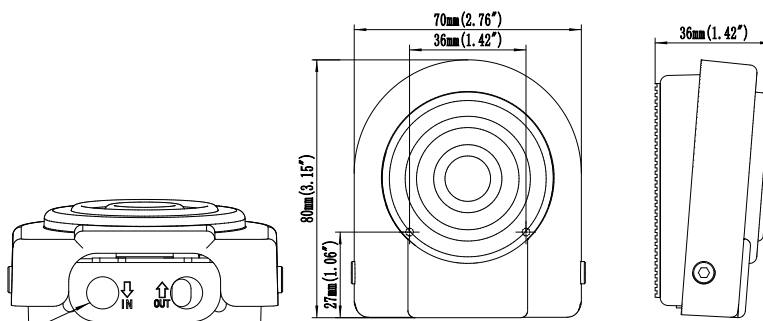
Model	Describe	Action force	100 P.S.I. Airflow	100 P.S.I. Emissions	1/8-27 N.P.T. Interface
FS-81-C2	Two way reset, aluminum alloy foot pedal	10 lbs	30 C.F.M	25 C.F.M	Interface external protection

Pneumatic switch series (IPX8)

FSM-91-C2



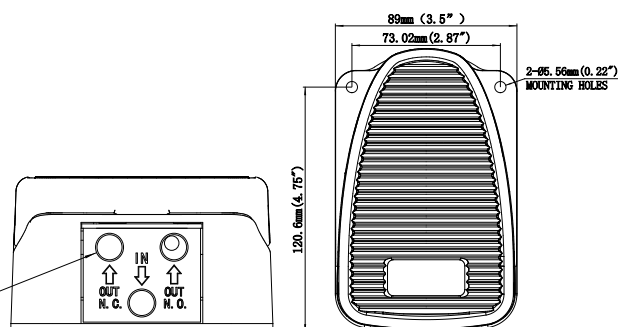
Pneumatic module
2-1/8NPT Screw Hole



FSC-31-C3



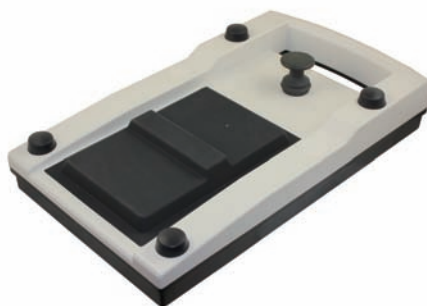
Pneumatic module
3-1/8NPT Screw Hole



Model	Describe	Action force	100 P.S.I. Airflow	100 P.S.I. Emissions	1/8-27 N.P.T. Interface
FSC-31-C2	Two - way reset, zinc - casting housing	10 lbs	30 C.F.M	25 C.F.M	Interface internal protection
FSC-31-C3	Three - way reset, zinc - casting housing	10 lbs	30 C.F.M	25 C.F.M	Interface internal protection
FSC-31-C4	Four - way reset, zinc - casting housing	19 lbs	30 C.F.M	25 C.F.M	Interface external protection
FSM-91-C2	Two - way reset, zinc - casting housing	7 lbs	30 C.F.M	25 C.F.M	Interface external protection

Customer Customization Solutions

Control switch for ophthalmic equipment:



Control switch for dental equipment:



Control switch for CT equipment:



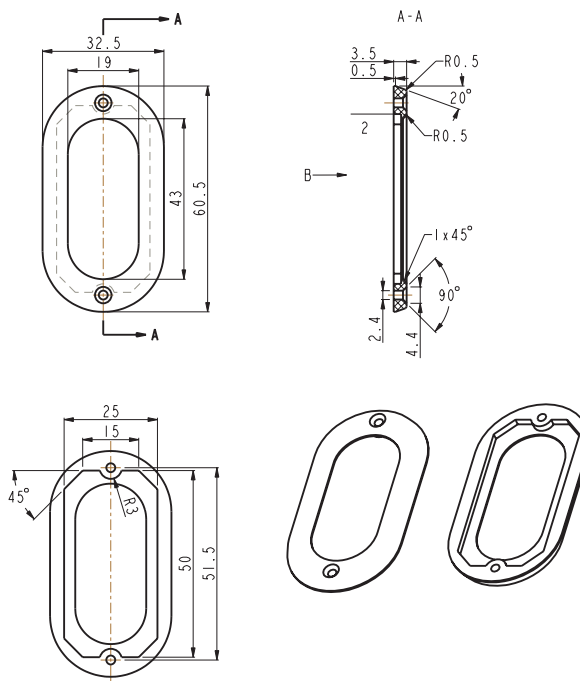
Two-Button Membrane Switches: HC-12

Features:

- Operating voltage < 50V DC
- Actuating force: 4N +/- 1N
- Minimum 3,000,000 cycles @ 300mA switching current
- Colors according to MFR 890/003:
- Plastic frame: Medical white C610
- Buttons: light blue 2717 / grey 630
- Foil colors: Medical white C610
- Arrow colors: black 433 / signal white 9003

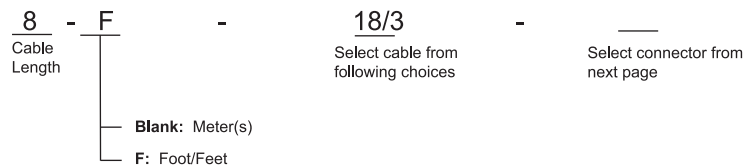


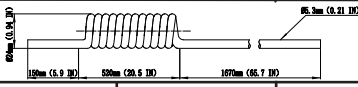
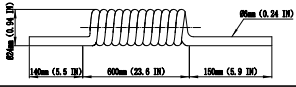
HC-12



Cables for Foot Switches

Selection Guide:



Order code	Gauge	Jacket Material	O.D.	Type	Color
18/2	18AWG x 2	PVC	7.5mm (0.30")	SJT	Black
18/3	18AWG x 3	PVC	7.8mm (0.307")	SJT	Black
16/4	16AWG x 4	PVC	9.3mm (0.366")	SJT	Black
14/3	14AWG x 3	PVC	9.3mm (0.366")	SJT	Black
14/4	14AWG x 4	PVC	10.3mm (0.406")	SJT	Black
20/4S(7032)	20AWG x 4	PVC (shield)	7.0mm (0.276")	AWM	RAL7032
20/4S(7030)	20AWG x 4	PVC (shield)	7.0mm (0.276")	AWM	RAL7030
22/4S	22AWG x 4	PVC (shield)	7.0mm (0.276")	AWM	Black
22/5S	22AWG x 5	PVC (shield)	5.6mm (0.22")	AWM	RAL7030
24/15S	24AWGX15	PVC(SHIELD)	7.0mm (0.287")	AWM	Black
22/4S	22AWGX4	PVC(SHIELD)	5.3mm (0.21")	AWM	RAL7044
22/5S	24AWGX4	PVC(SHIELD)	5.3mm (0.21")	AWM	RAL7044
26/7-PUR-C	26AWG x 7	PUR	5.3mm (0.209")	Coil Cord	Black
					
23/7-PUR-C	23AWG x 7	PUR	6.0mm (0.236")	Coil Cord	Black
					



23/7-PUR-C



26/7-PUR-C

Connectors for Foot Switches

Order Code	Connectors	Pictures	Gauge	Standard cable length
MON3.5	3.5mm mono plug		24AWG x 2	2050mm (6.7ft)
STO3.5	3.5mm stereo plug		20AWG x 3	2050mm (6.7ft)
YPCT-6.3	6.3mm Double audio plug			
RJ45	RJ45 plug		26AWG x 4	2050mm (6.7ft)
USB	USB plug		28AWG x 4	3000mm (9.8ft)
P	3 prong series plug		18AWG x 3	2440mm (8ft)
			14AWG x 3	
DB9	9 pin D sub			
HD9PIN+DB9	Metal 9 pin plug			
ODU	ODU #S22L0C-P10MJGP-6200 (10 *)			
C13/C14	C13/C14 power cord			

* Contact us for other connectors

The logo for SUNS, featuring the word "SUNS" in a bold, white, sans-serif font with a registered trademark symbol (®) to the upper right. The logo is positioned on the left side of the page, with a white geometric line extending from its right side across the middle of the page.

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