

SUNS[®] International, LLC

• Innovation • Quality • Service



Medical Foot Switches

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

• 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)

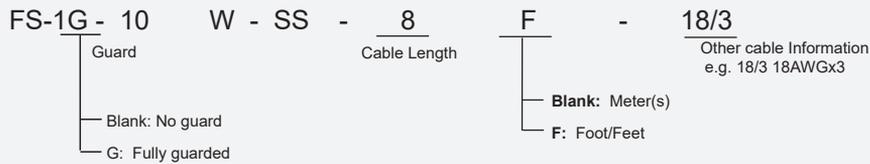
Features

- 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

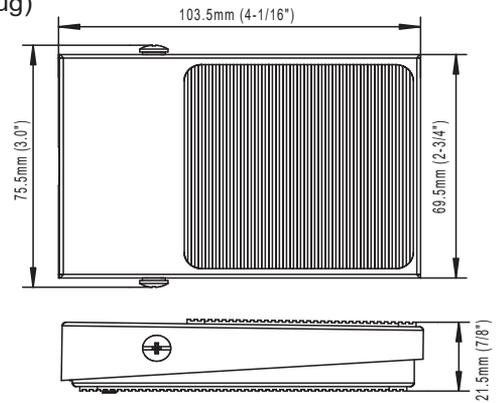
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/250VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x10 ⁶ (operations)
Operating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

Selection Guide:

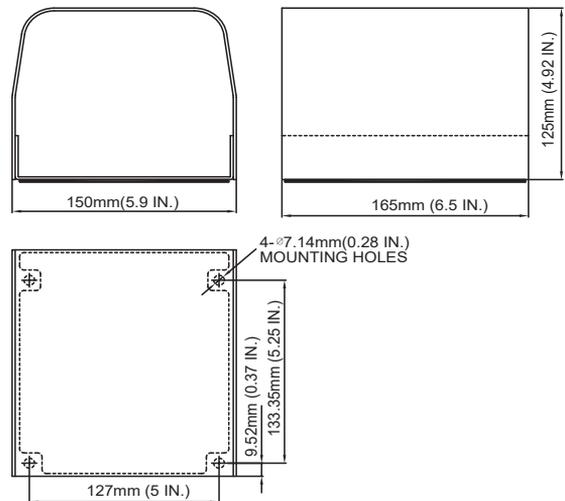


Dimensions:

- FS-1-10W-SS (Not wired)
- FS-1-10W-SS-2-18/3 (Prewired, 2 meters, 18AWGx3, 1NO)
- FS-1-10W-SS-8F-18/3 (Prewired, 8ft, 18AWGx3, 1NO)
- FS-1-10W-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)

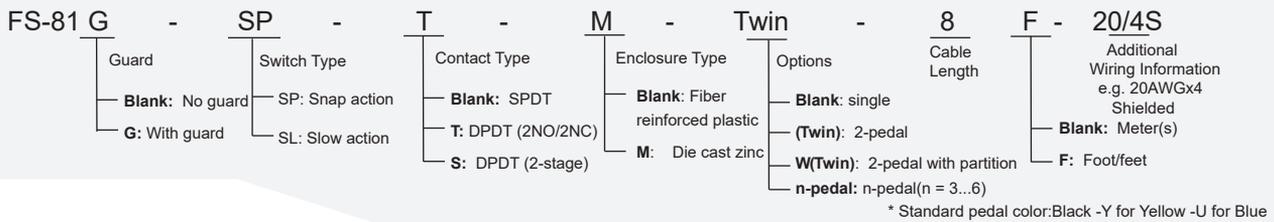
Features

- Robust glass fiber reinforced plastic or zinc die cast body
- Galvanically separated contacts
- Positive opening of NC contacts
- Comply with IEC60601-1 and YY1057 standards
- Wire and connector can be connected according to customer's requirements
- USB optional available
- Multiple Pedal colors available

Specifications

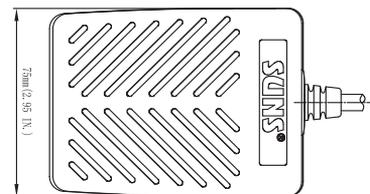
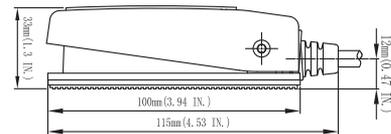
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC UL Rating: A300/AC15 IEC60601-1: 5A/25VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying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

Selection Guide:

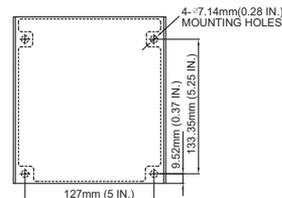
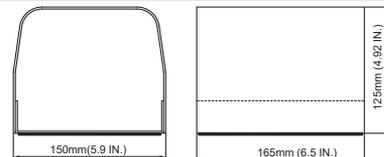


Dimensions:

- 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)

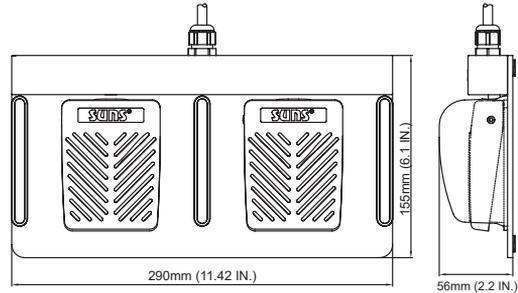


- FS-1G (Orange)
- FS-1G-W (Medical white)
- FS-1G-SS (Stainless steel)
- FSP-1G(Plastic)

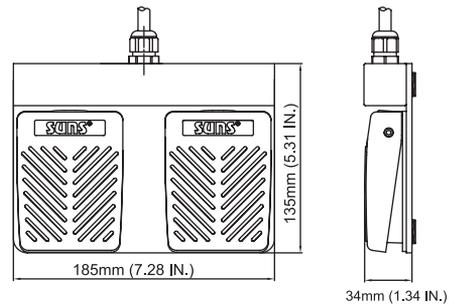


FS-81 Series Medical Foot Switches(IPx8)

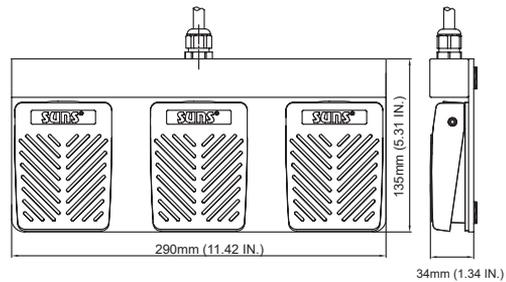
FS-81-SP-W(TWIN)-2-20/4S (20AWGx4, shielded, 2 meters, 1NO per pedal, cable diameter 7.0mm)
FS-81-SP-W(TWIN)-2-22/5S (22AWGx5, shielded, 2 meters, 1NO per pedal, cable diameter 5.6mm)



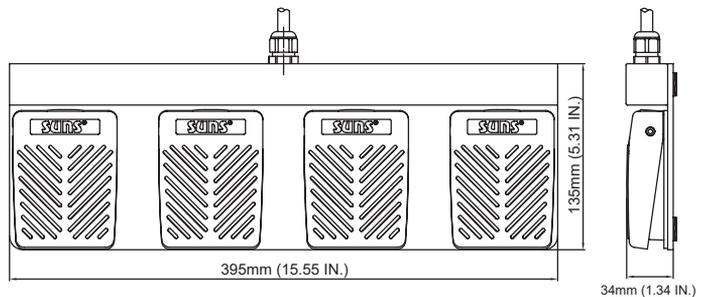
FS-81-SP-(TWIN)-2-20/4S (20AWGx4, shielded, 2 meters, 1NO per pedal, cable diameter 7.0mm)
FS-81-SP-(TWIN)-2-22/5S (22AWGx5, shielded, 2 meters, 1NO per pedal, cable diameter 5.6mm)



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
- Comply with IEC60601-1 and YY1057 standards
- Wire and connector can be connected according to customer's requirements
- USB optional available

Specifications

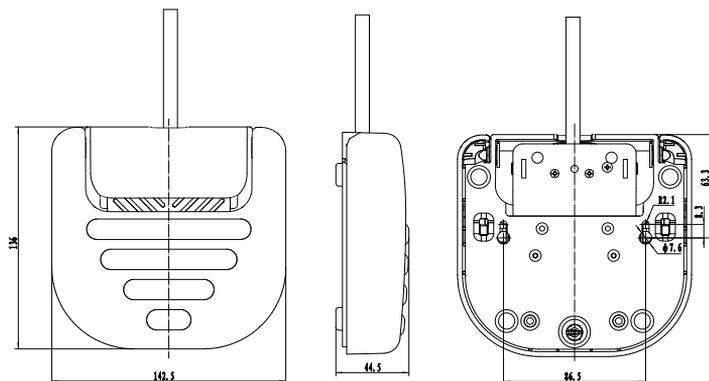
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC UL Rating: A300/AC15 IEC60601-1: 5A/25VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying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

Selection Guide:

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

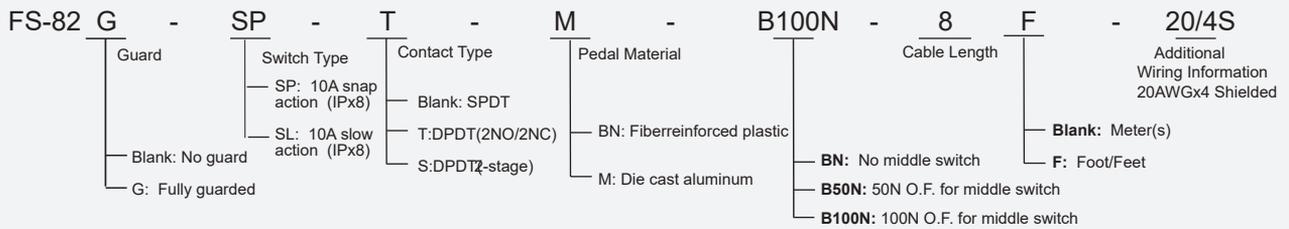
Features

- Aluminum alloy die cast base
- Galvanically separated contacts (for -SP, -SL)
- Positive opening of NC contacts (for -SP, -SL)
- Comply with IEC60601-1 and YY1057 standards
- Wire and connector can be connected according to customer's requirements
- USB optional available
- Multiple Pedal colors 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 IEC60601-1: 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 x10 ⁶ (operations) Electrically 1 x10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

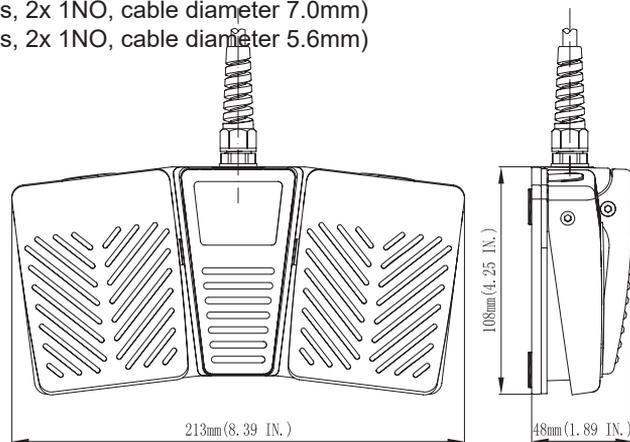
Selection Guide:



Dimensions:

* Standard pedal color: Black

FS-82-SP-B100N-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
FS-82-SP-B100N-2-22/5S (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)



FS-81-W Medical Foot Switches (IPX8)

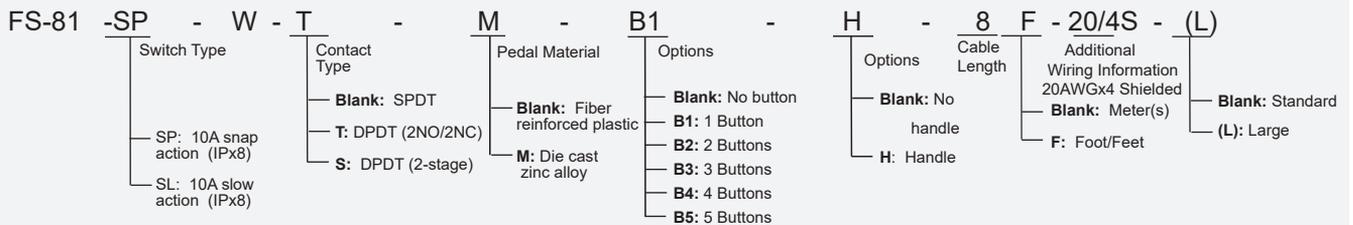
Features

- Aluminum alloy die cast base
- Galvanically separated contacts (for -SP)
- Positive opening of NC contacts (for -SP)
- Comply with IEC60601-1 and YY1057 standards
- Wire and connector can be connected according to customer's requirements
- USB optional available
- Multiple Pedal colors available
- Wireless model is optional, only applicable with base

Specifications

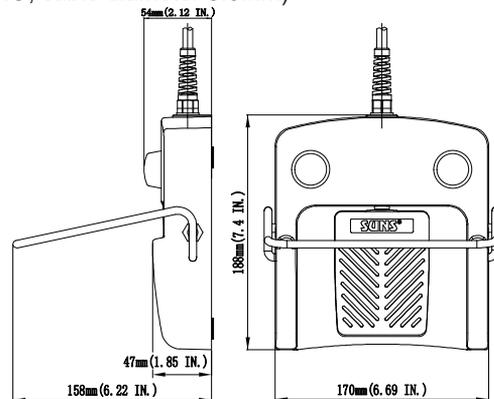
Operating Frequency	60 ops/min	
Insulation Resistance	>100MΩ @500V DC	
Contact Resistance	<25mΩ (initial)	
Rated Current/Voltage	Ith: 10A UL Rating: IEC60601-1:	Ui: 300V AC A300/AC15 5A/25VAC
Inrush Current	Complies with IEC947-5-1: AC15/DC13	
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts	
Service Life	Mechanically 1 x 10 ⁶ (operations) Electrically 1 x 10 ⁵ (operations)	
Operating Temperature	-30~+80°C (-22~176°F)	
Degree of Protection	IPX8	

Selection Guide:

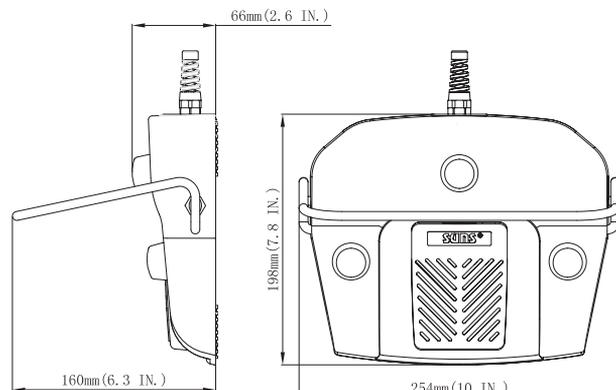


* Standard pedal color: Black

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



FS-81-SP-W-B3-H-2-22/5S-(L) (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)



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

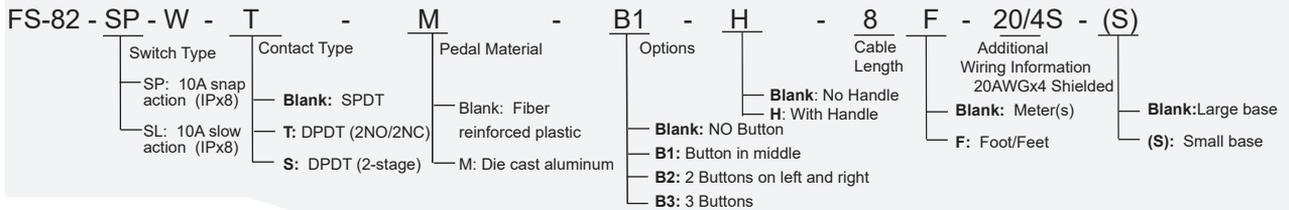
Features

- Aluminum alloy die cast base
- Galvanically separated contacts (for -SP, -SL)
- Positive opening of NC contacts (for -SP, -SL)
- Comply with IEC60601-1 and YY1057 standards
- Wire and connector can be connected according to customer's requirements
- USB optional available
- Multiple Pedal colors available
- Wireless model is optional, only applicable with base

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 IEC60601-1: 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 1 x 10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

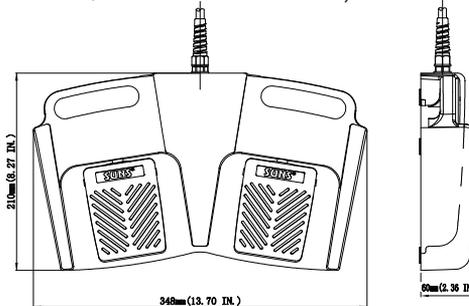
Selection Guide:



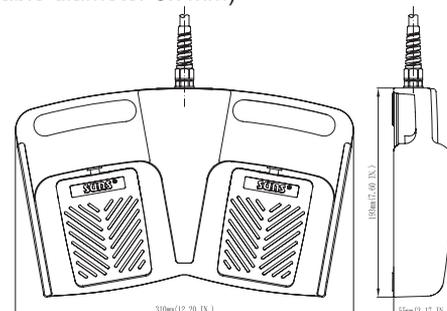
Dimensions:

* Standard pedal color: Black

- 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-B1-2-22/5S (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
- FS-82-SP-W-B2-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-82-SP-W-B3-2-20/6S (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



- 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-B1-2-22/5S-(S) (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
- FS-82-SP-W-B2-2-22/5S-(S) (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-82-SP-W-B3-2-20/6S-(S) (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



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)
- Comply with IEC60601-1 and YY1057 standards
- Wire and connector can be connected according to customer's requirements
- USB optional available
- Multiple Pedal colors available
- Wireless model is optional, only applicable with base

Specifications

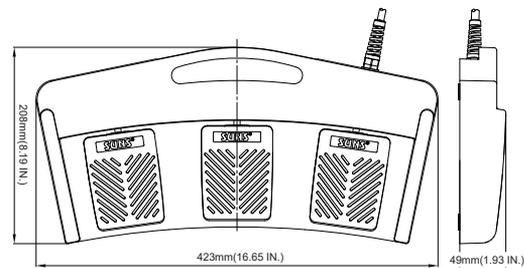
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC UL Rating: A300/AC15 IEC60601-1: 5A/25VAC
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x 10 ⁶ (operations) Electrically 1 x 10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

Selection Guide:

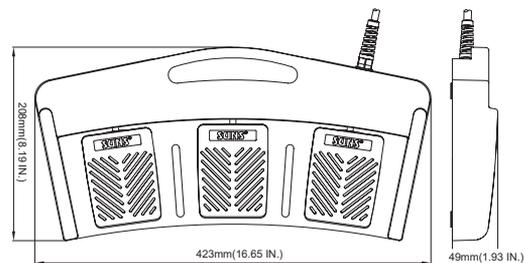
FS-83-SP		-	W		-	T		-	M		-	B1		-	H		-	8		-	F		-	20/4S		-	(P)	
Switch Type			Base Material			Contact Type			Pedal Material			Options			Cable Length			Additional Wiring Information			20AWGx4 Shielded			Blank: No Partition			(P): With partition between pedals	
— SP: 10A snap action (IPx8)			— W: Alloy base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

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-B2-2-20/6S (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



- 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-B2-2-20/6S-(P) (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



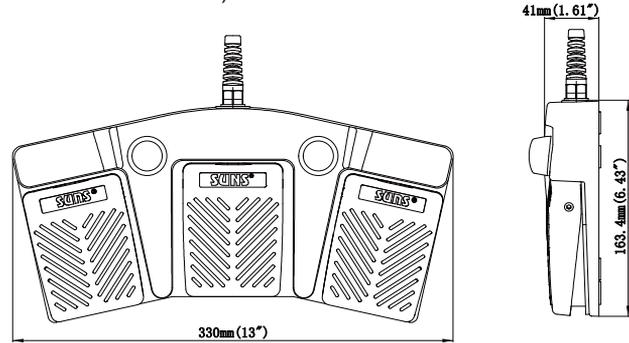
FS-83-W Series Medical Foot Switches (IPX8)

FS-83-SP-WP-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)

FS-83-SP-WP-B1-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)

FS-83-SP-WP-B2-2-20/6S (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)

FS-83-SP-WP-B3-26/7 (26AWGx7, PUR, coiled, 6 1NO, cable diameter 5.3mm)

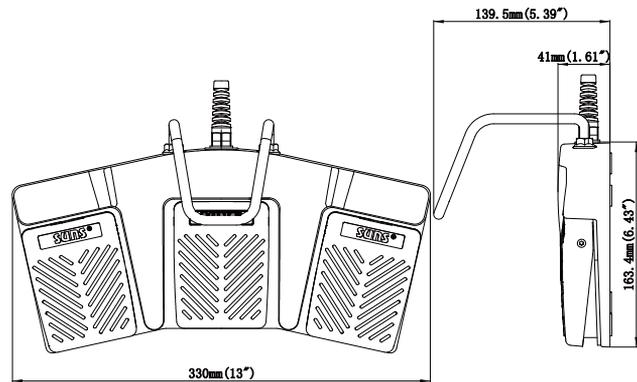


FS-83-SP-WP-H-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)

FS-83-SP-WP-B1-H-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)

FS-83-SP-WP-B2-H-2-20/6S (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)

FS-83-SP-WP-B3-H-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



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

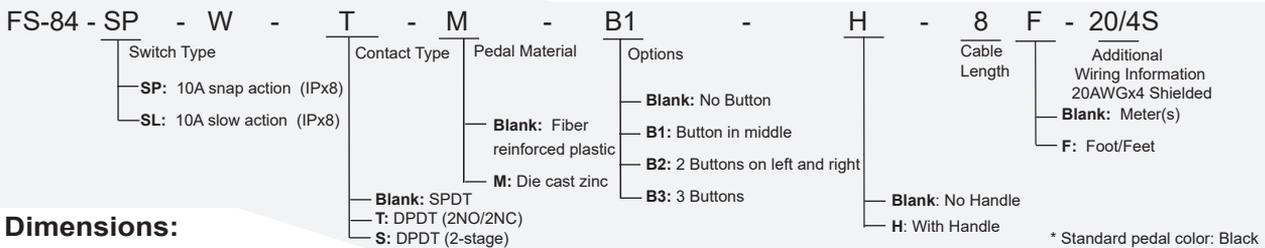
Features

- Robust glass fiber reinforced plastic base
- Galvanically separated contacts (for -SP, -SL)
- Positive opening of NC contacts (for -SP, -SL)
- Comply with IEC60601-1 and YY1057 standards
- Wire and connector can be connected according to customer's requirements
- USB optional available
- Multiple Pedal colors available
- Wireless model is optional, only applicable with base

Specifications

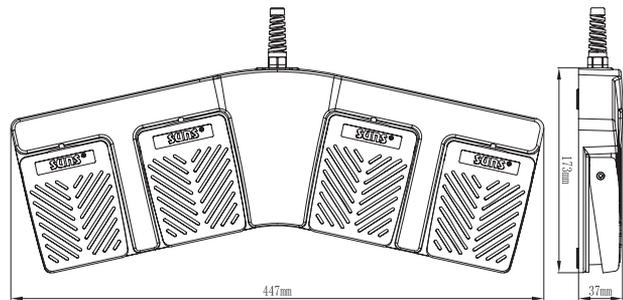
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Ith: 10A Ui: 300V AC UL Rating: A300/AC15 IEC60601-1: 5A/25VAC
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x 10 ⁶ (operations) Electrically 1 x 10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

Selection Guide:

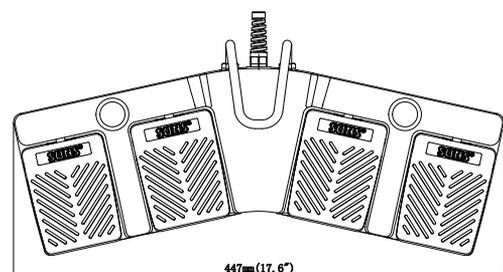
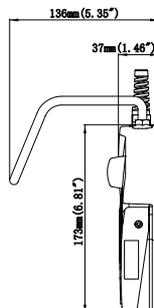


Dimensions:

- FS-84-SP-W-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-84-SP-W-B1-2-20/6S (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)
- FS-84-SP-W-B2-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



- FS-84-SP-W-H-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-84-SP-W-H-B1-2-20/6S (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)
- FS-84-SP-W-H-B2-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



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

Features

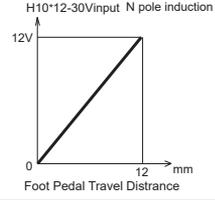
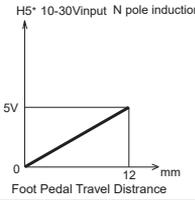
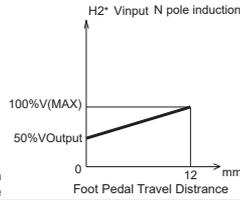
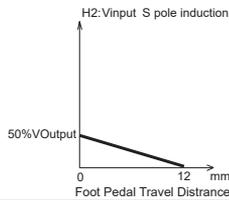
- Robust glass fiber reinforced plastic housing
- Aluminum alloy die cast base
- Linear output or switch output
- Output can be directly connected to most electronics circuitry such as microprocessors integrated logic, discrete transistors and SCRs with compatible voltage specifications

Specifications

Supply Voltage (Vs)	Switch output H1: 3.8-30VDC Analog output H2: 4.5-10.5 VDC H5: 10-30 VDC H10: 12-30 VDC
Output Type	Linear output or switch output
Output Voltage	See the graph below
Output Current	H1: 20mA H2: 7mA H5/H10: 20mA
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP68

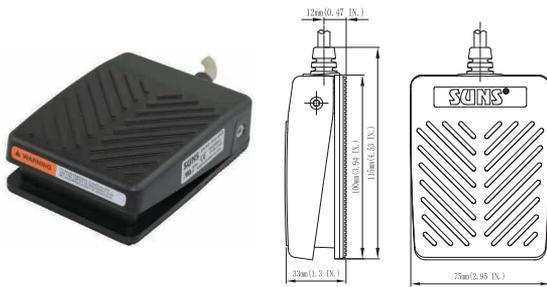
Selection Guide:

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 H5: 10-30VDCinput analog output 0-5V H10: 12-30VDCinput analog output 0-10V		N: N pole induction S: S pole induction		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				Blank: Fiber reinforced plastic M: Die cast zinc alloy		Blank: No button B1: One button B2: Two buttons B3: Three buttons					Blank: Meter(s) F: Foot/feet	

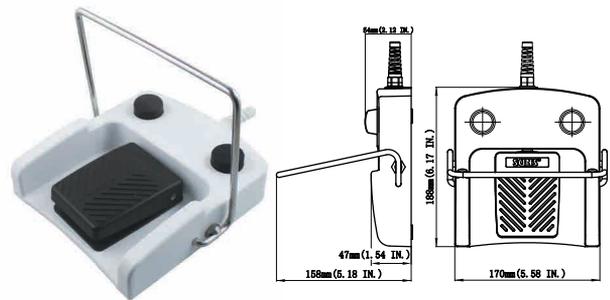


Dimensions:

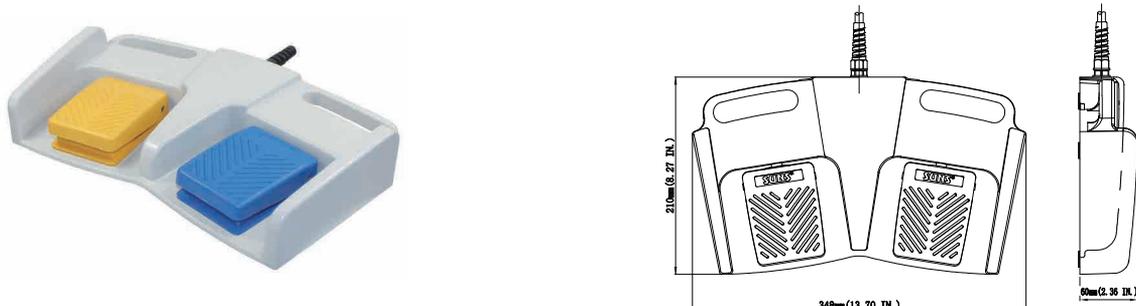
FS-81-H2-N-2-24/3



FS-81-W-H2-N-B2-2-20/6S



FS-82-W-H2-N-2-20/6S



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

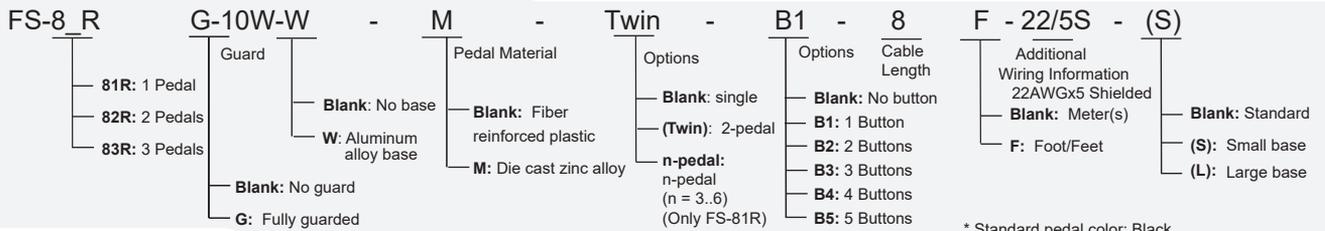
Features

- Robust glass fiber reinforced plastic or die cast zinc alloy pedal
- Sturdy aluminum alloy base available
- Compact design
- Pedal rocks left and right for multifunction applications
- Various base options available

Specifications

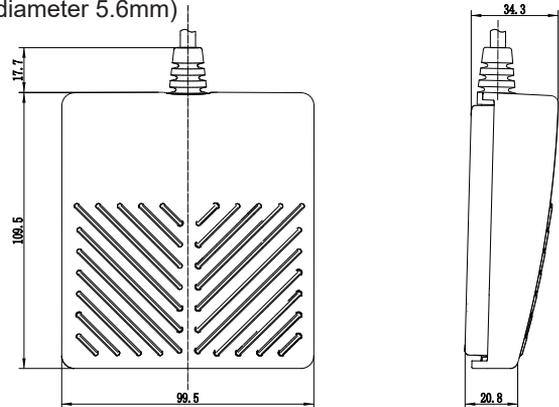
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/15A 1/2HP 250VAC
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

Selection Guide:

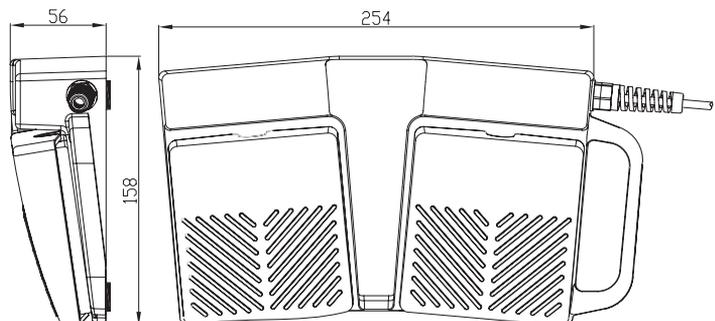


Dimensions:

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, 4x 1NO, cable diameter 5.6mm)
 FS-82R-10W-B1-26/7 (26AWGx7, PUR, coiled, 5x 1NO, cable diameter 5.3mm)
 FS-82R-10W-B2-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)

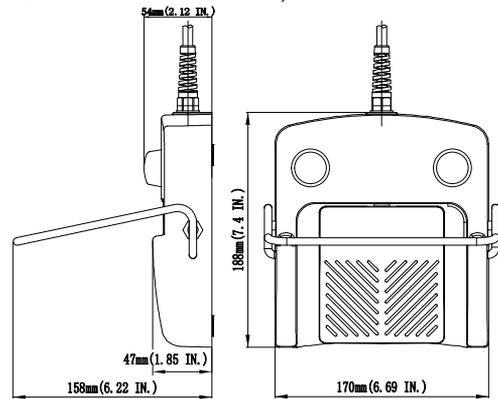


*Plastic base

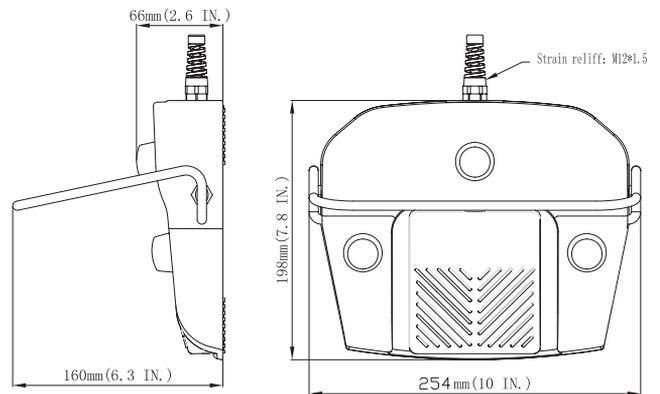
*The base is only compatible with a maximum of 2 buttons

FS-8_R Series Medical Foot Switches (IPx8)

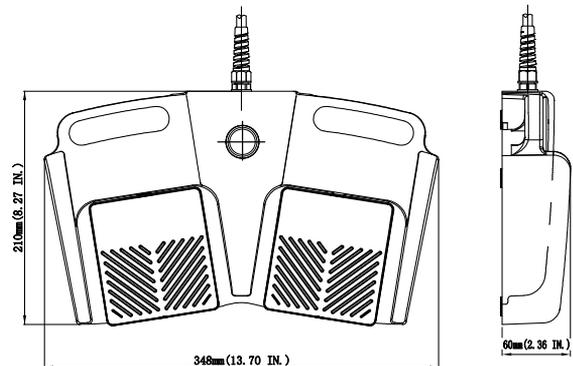
- FS-81R-10W-W-2-20/4S** (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
- FS-81R-10W-W-B1-20/4S** (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
- FS-81R-10W-W-B1-22/5S** (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
- FS-81R-10W-W-B2-22/5S** (22AWGx5, shielded,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



- FS-81R-10W-W-B1-2-20/4S-(L)** (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
- FS-81R-10W-W-B2-2-22/5S-(L)** (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-81R-10W-W-B3-2-20/6S-(L)** (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



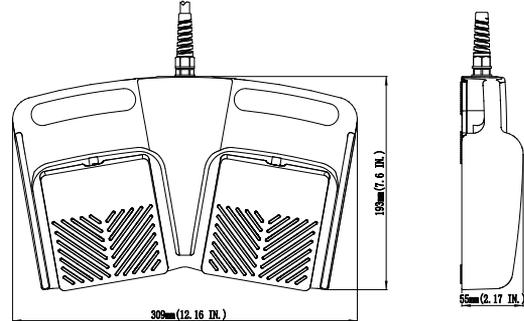
- FS-82R-10W-W-2-22/5S** (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-82R-10W-W-B1-2-20/6S** (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



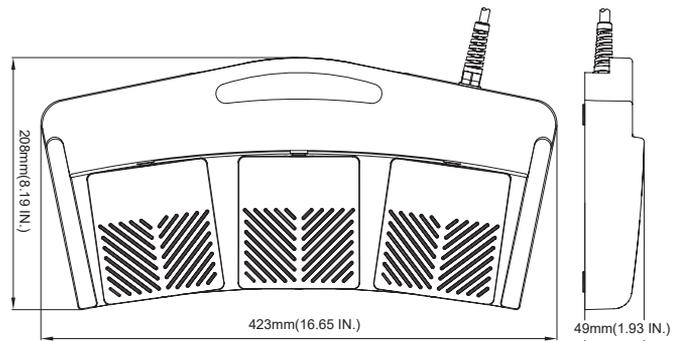
FS-8_R Series Medical Foot Switches (IPx8)

FS-82R-10W-W-2-22/5S-(S) (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)

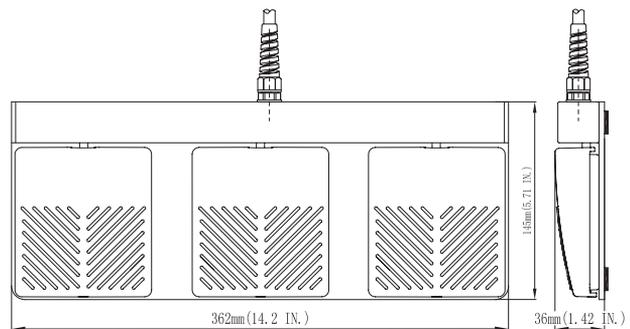
FS-82R-10W-W-B1-2-20/6S-(S) (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



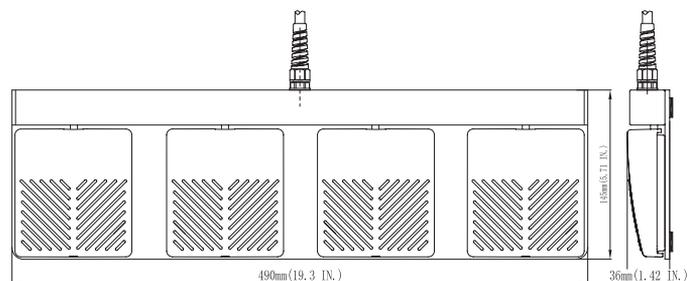
FS-83R-10W-W-2-22/8 (22AWGx8, 2 meters, 6x 1NO, cable diameter 6.2mm)



FS-81R-10W(3-PEDAL)-2-22/8 (22AWGx8, 2 meters, 6x 1NO, cable diameter 6.2mm)



FS-81R-10W(4-PEDAL)-2-22/9 (22AWGx9, 2 meters, 8x 1NO, cable diameter 7.4mm)

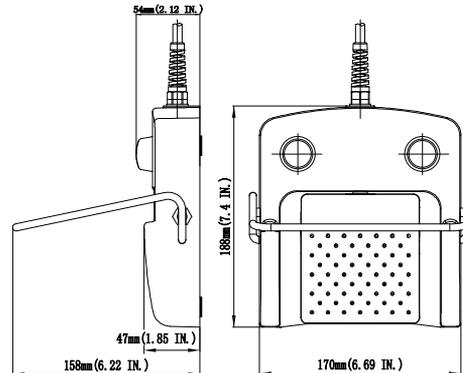


FS-21 Series Medical Foot Switches (IPX8)

- FS-21-10W-W-2-20/4S** (20AWGx2, shielded, 2 meters, 1x 1NO, cable diameter 4.8mm)
- FS-21-10W-W-B1-2-20/4S** (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
- FS-21-10W-W-B1-2-22/5S** (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)
- 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)



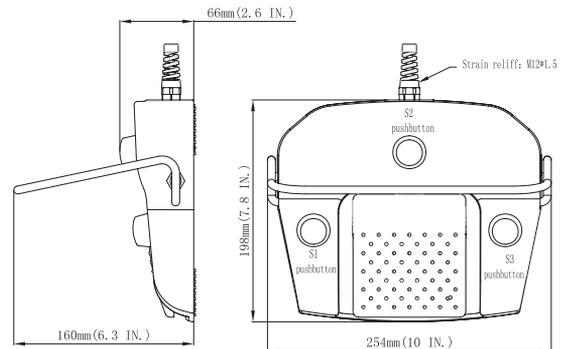
Unitary aluminium alloy base



- FS-21-10W-T-W-B1-2-20/4S-(L)** (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
- FS-21-10W-T-W-B2-2-22/5S-(L)** (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-21-10W-T-W-B3-2-20/6S-(L)** (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



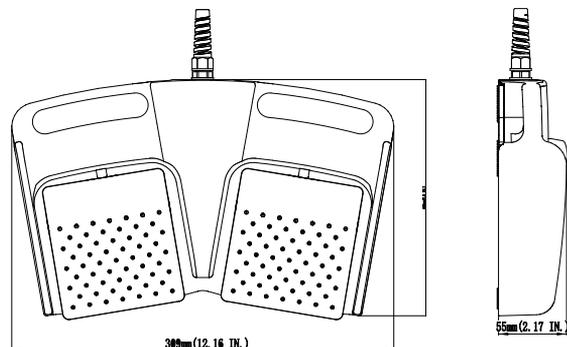
Unitary aluminium alloy base



- FS-22-10W-W-2-20/4S-(S)** (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
- FS-22-10W-W-2-22/5S-(S)** (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)
- FS-22-10W-W-B1-2-20/4S-(S)** (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
- FS-22-10W-W-B1-2-22/5S-(S)** (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
- FS-22-10W-W-B2-2-22/5S-(S)** (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-22-10W-W-B2-2-20/6S-(S)** (20AWGx6, shielded, 2 meters, 4x 1NO, cable diameter 6.7mm)

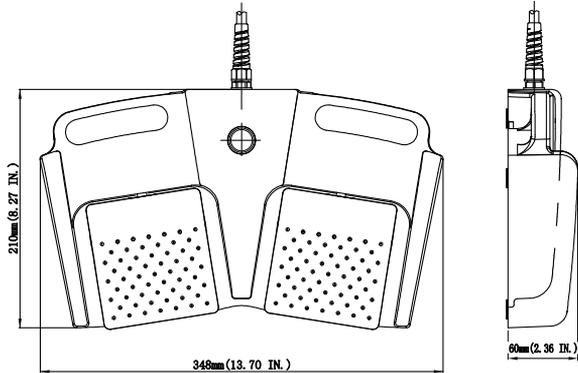


Unitary aluminium alloy base



FS-21 Series Medical Foot Switches (IPX8)

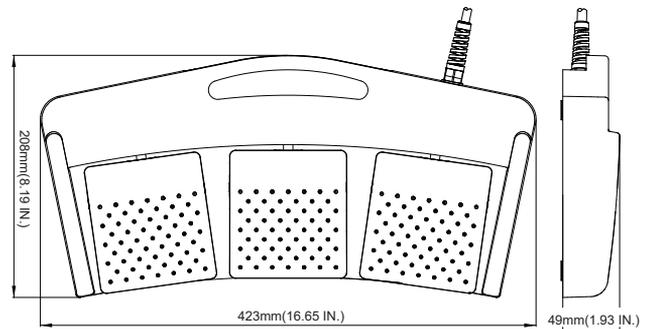
- FS-22-10W-W-2-20/4S** (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
- FS-22-10W-W-2-22/5S** (22AWGx5, shielded, 2 meters, 2x 1NO, cable diameter 5.6mm)
- FS-22-10W-W-B1-2-20/4S** (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
- FS-22-10W-W-B1-2-22/5S** (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
- FS-22-10W-W-B2-2-22/5S** (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-22-10W-W-B2-2-20/6S** (20AWGx6, shielded, 2 meters, 4x 1NO, cable diameter 6.7mm)



- FS-23-10W-W-2-20/4S** (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
- FS-23-10W-W-B1-2-22/5S** (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FS-23-10W-W-B2-2-20/6S** (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



Unitary aluminium alloy base



FX-8 Series Medical Foot Switches (IPX8)

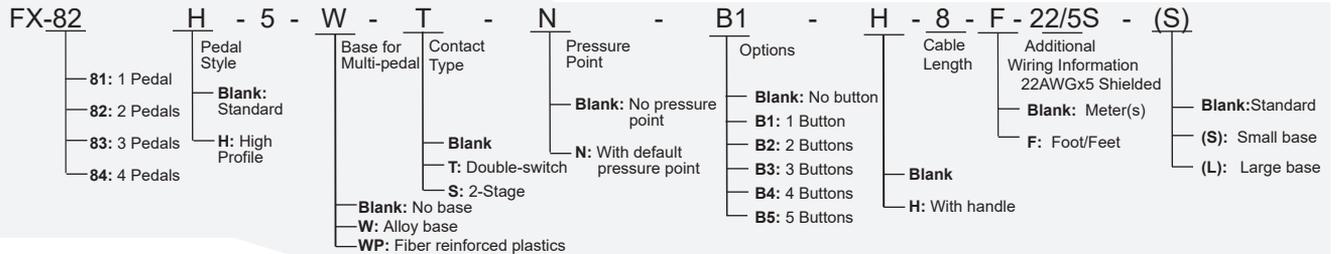
Features

- Robust glass fiber reinforced plastics
- Compact design
- Easy to clean and sterilize
- Various internal switch types
- Pressure point for better tactile feeling
- Ergonomic pedal profile for smooth actuation
- Large front label space for custom design

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	5A 125/250VAC; 5A/30VDC
Inrush Current	Complies with IEC947-5-1
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

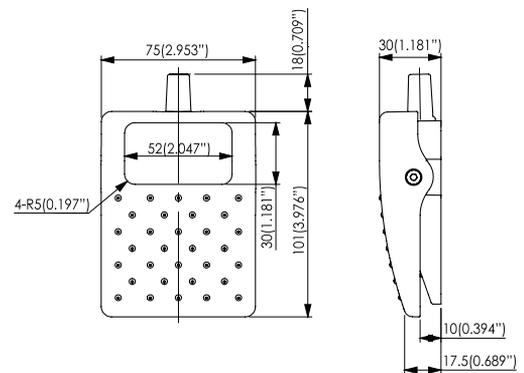
Selection Guide:



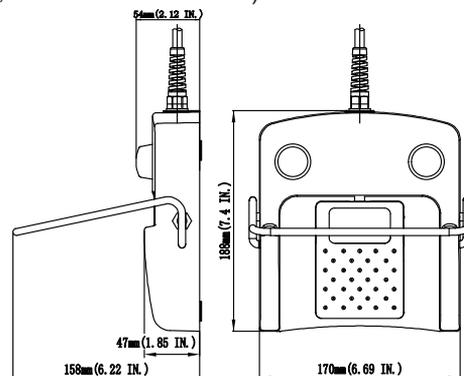
* Standard pedal color: Black

Dimensions:

FX-81-5-N-2-20/4S (20AWGx4, shielded, 2 meters, 1NO/1NC, cable diameter 7.0mm)
FX-81-5-N-2-20/4S W (20AWGx4, shielded, 2 meters, 1NO/1NC, cable diameter 7.0mm, White Pedal)

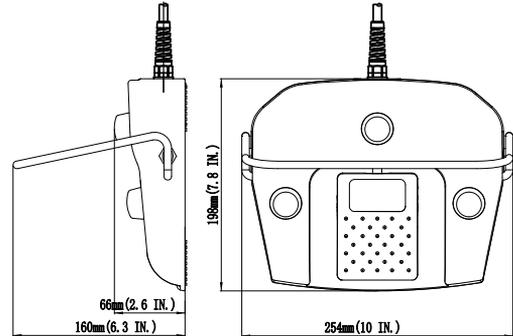


FX-81-5-W-N-B1-H-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)
FX-81-5-W-N-B2-H-2-22/5S (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)

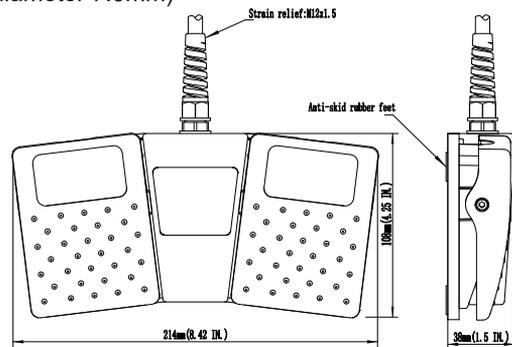


FX-8 Series Medical Foot Switches (IPX8)

FX-81-5-W-N-B3-H-2-22/5S-(L) (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)



FX-82-5-N-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)



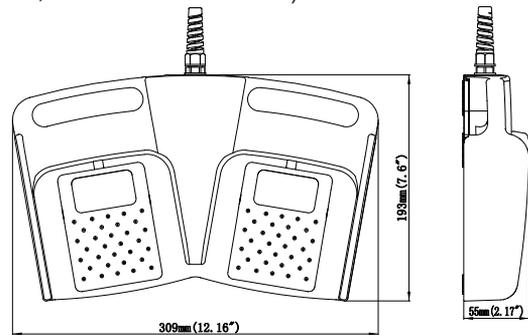
FX-82-5-W-N-2-20/4S-(S) (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)

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

FX-82-5-W-N-B1-2-20/4S-(S) (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)

FX-82-5-W-N-B2-2-22/5S-(S) (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)

FX-82-5-W-N-B3-2-20/6S-(S) (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



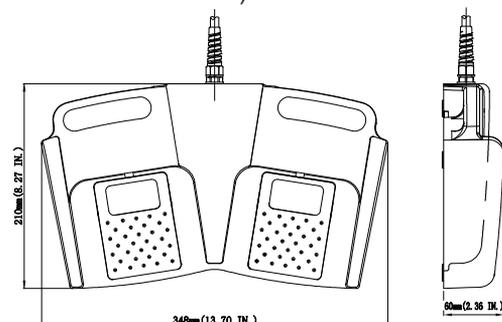
FX-82-5-W-N-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)

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

FX-82-5-W-N-B1-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)

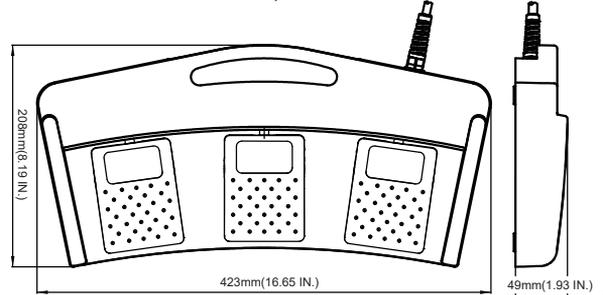
FX-82-5-W-N-B2-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)

FX-82-5-W-N-B3-2-20/6S (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)

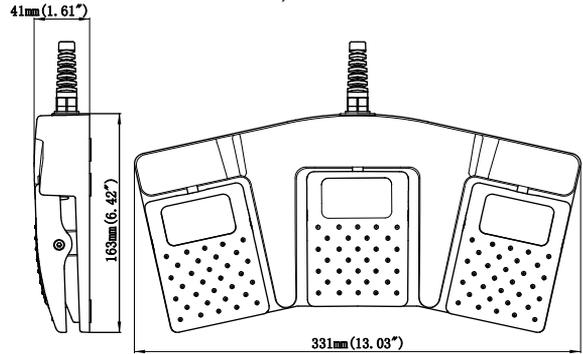


FX-8 Series Medical Foot Switches (IPX8)

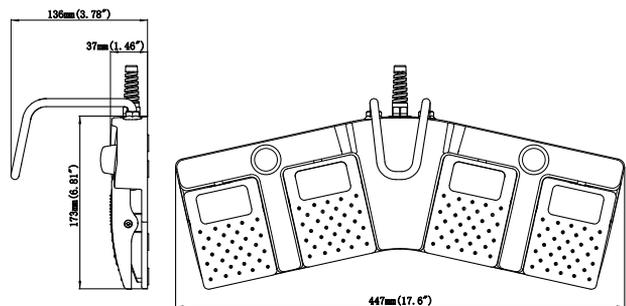
- FX-83-5-W-N-2-20/4S** (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
- FX-83-5-W-N-2-22/5S** (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
- FX-83-5-W-N-B1-2-22/5S** (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)
- FX-83-5-W-N-B2-2-20/6S** (20AWGx6, shielded, 2 meters, 5x 1NO, cable diameter 6.7mm)



- FX-83-5-WP-N-2-20/4S** (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
- FX-83-5-WP-N-2-22/5S** (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)



- FX-84-5-W-N-B2-H-26/7** (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



FT-8 Series Medical Foot Switches(IPX8, Standard/Rocker)

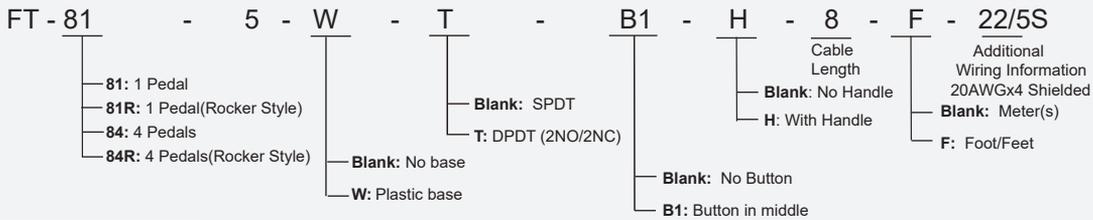
Features

- Robust glass fiber reinforced plastic
- Compact design
- Rocker style available for multiple functions
- Wireless version available for -W model with base
- Wire and connector can be connected according to customer's requirements
- USB optional available
- Multiple Pedal colors available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	5A 125/250VAC
Inrush Current	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 1 x10 ⁵ (operations)
Operating Temperature	-30~+80°C (-22~176°)
Degree of Protection	IPX8

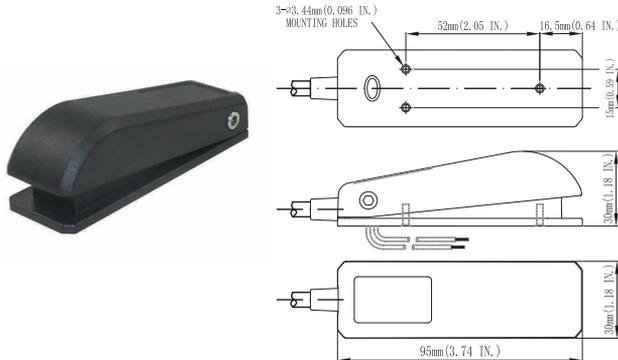
Selection Guide:



Dimensions:

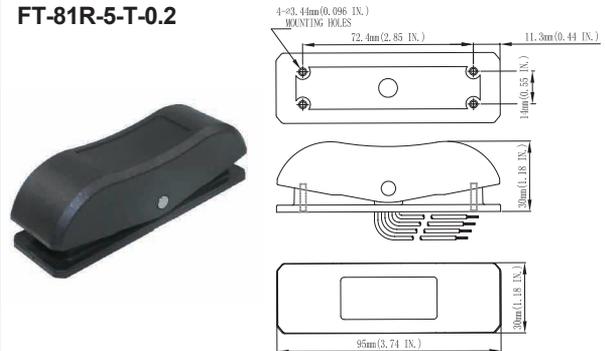
* Standard pedal color: Black

FT-81-5-2-20/2S (20AWGx2, shielded, 2 meters, 1x 1NO, cable diameter 4.8mm)
FT-81-5-T-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)



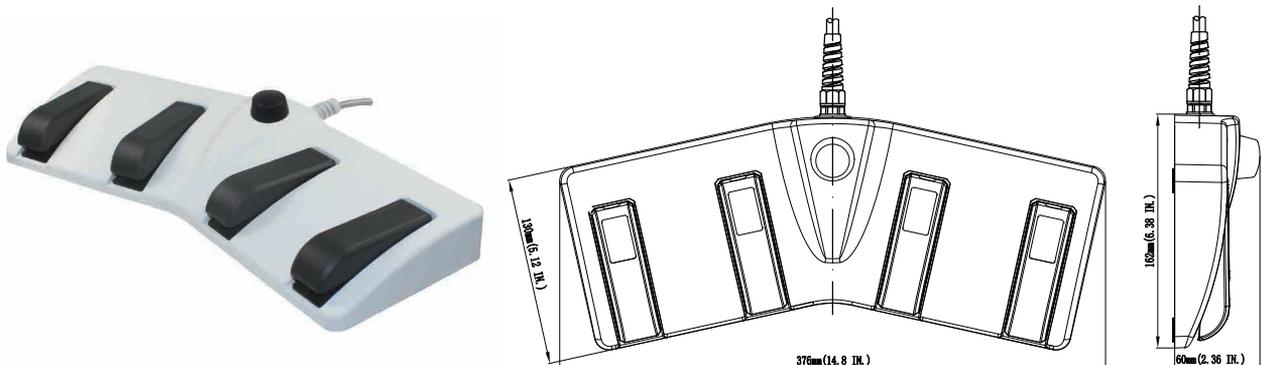
*Optional bottom outlet wire standard 0.2m

FT-81R-5-0.2
FT-81R-5-T-0.2



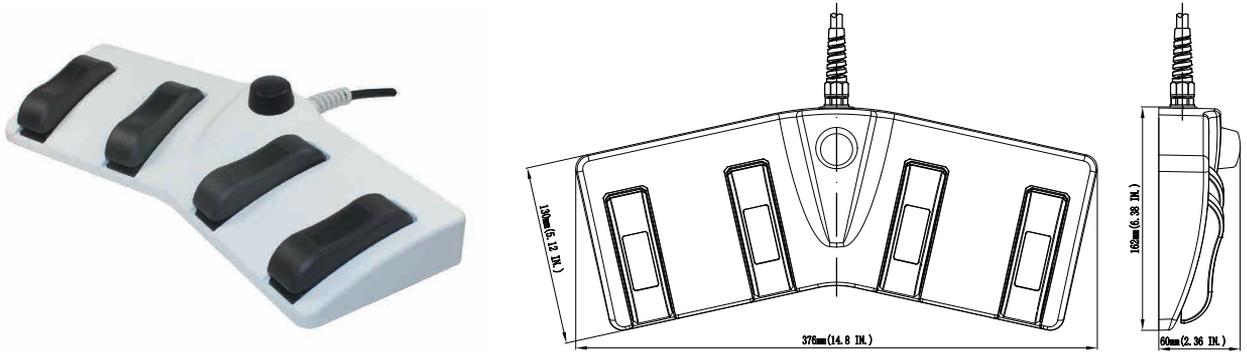
* It can only be replaced with Ft-84r as Ft-84 product
 * Supply bottom outlet wire only

FT-84-5-W-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO with one common, cable diameter 5.6mm)
FT-84-5-W-T-2-22/9 (22AWGx9, 2 meters, 8x 1NO with one common, cable diameter 7.4mm)
FT-84-5-W-B1-2-20/6S (20AWGx6, shielded, 2 meters, 5x 1NO with one common, cable diameter 6.7mm)

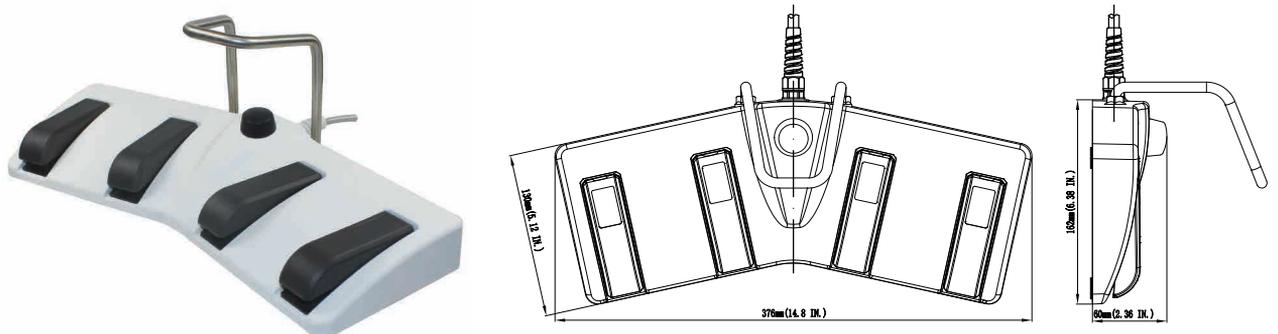


FT-8 Series Medical Foot Switches(IPX8, Standard/Rocker)

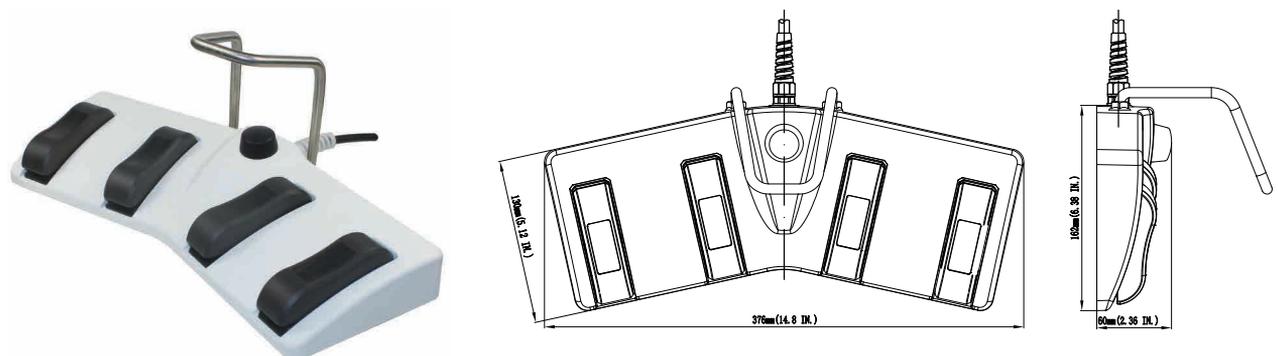
- FT-84R-5-W-2-22/5S** (22AWGx5, shielded, 2 meters, 8x 1NO with one common, cable diameter 5.6mm)
- FT-84R-5-W-2-22/9** (22AWGx9, 2 meters, 8x 1NO with one common, cable diameter 7.4mm)
- FT-84R-5-W-B1-2-24/15S** (24AWGx15, shielded, 2 meters, 9x 1NO with one common, cable diameter 7.0mm)



- FT-84-5-W-H-2-22/5S** (22AWGx5, shielded, 2 meters, 4x 1NO with one common, cable diameter 5.6mm)
- FT-84-5-W-T-H-2-22/9** (22AWGx9, 2 meters, 8x 1NO with one common, cable diameter 7.4mm)
- FT-84-5-W-B1-H-2-20/6S** (20AWGx6, shielded, 2 meters, 5x 1NO with one common, cable diameter 6.7mm)



- FT-84R-5-W-H-2-22/9** (22AWGx9, 2 meters, 8x 1NO with one common, cable diameter 7.4mm)
- FT-84R-5-W-B1-H-2-24/15S** (24AWGx15, shielded, 2 meters, 9x 1NO with one common, cable diameter 7.0mm)



FP-4 Series Medical Foot Switches

Features

- Rubber enclosure
- Compact size
- Ergonomic low profile design
- Easy to clean
- High mechanical stability
- Option for various bases with buttons
- IP69K of double insulation available
- Internal rubber overmold switch for -LS

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	5A 125/250VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	20~+80°C (-4~176°F)
Degree of Protection	IP67 or IP68/IP69K

Selection Guide:

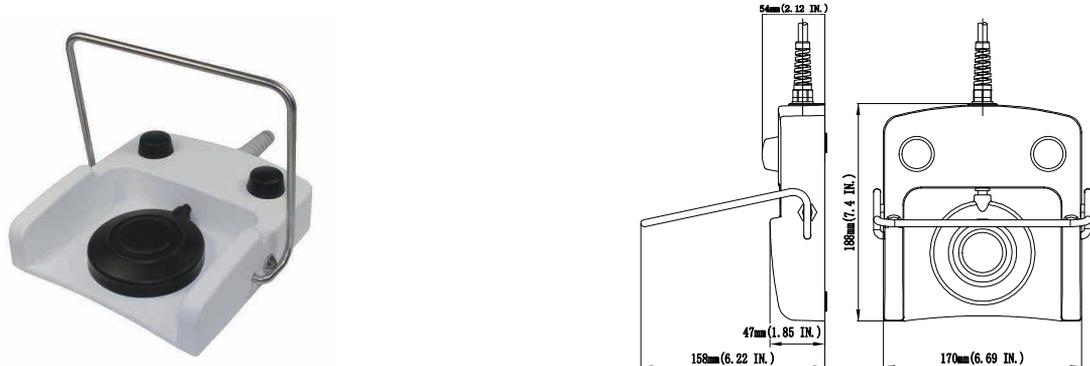
FP - 4	1	-	5W	-	W	-	-	B2	-	H	-	8	F	-	20/4S	(B/B)	-	(S)
Number of Pedals	Guard		Current Rating	Base (Optional)	Contact Type	Options	Handle (Optional)	Cable Length	Additional Wiring Information	Pedal/Button Color								
	Blank: No guard G: Fully guarded		5: 5A IP67 10: 10A IP67 15: 15A IP67 5W: 5A IP68/IP69K 10W: 10A IP68/IP69K LS: 5A IP68/IP69K		Blank: SPDT T: DPDT (2NO/2NC)	Blank: No button B1: 1 Button B2: 2 Buttons B3: 3 Buttons B4: 4 Buttons B5: 5 Buttons			Blank: Meter(s) F: Foot/Feet	Blank: Black U: Blue Y: Yellow						Blank: Standard (S): Small base (L): Large base		

Dimensions:

- FP-41-LS-8F-20/2S(B)** (20AWG×2, shielded, 8ft, 1×1NO, Black Pedal, cable diameter 4.8mm)
FP-41-LS-8F-20/2S(U) (20AWG×2, shielded, 8ft, 1×1NO, Blue Pedal, cable diameter 4.8mm)
FP-41-LS-8F-20/2S(Y) (20AWG×2, shielded, 8ft, 1×1NO, Yellow Pedal, cable diameter 4.8mm)

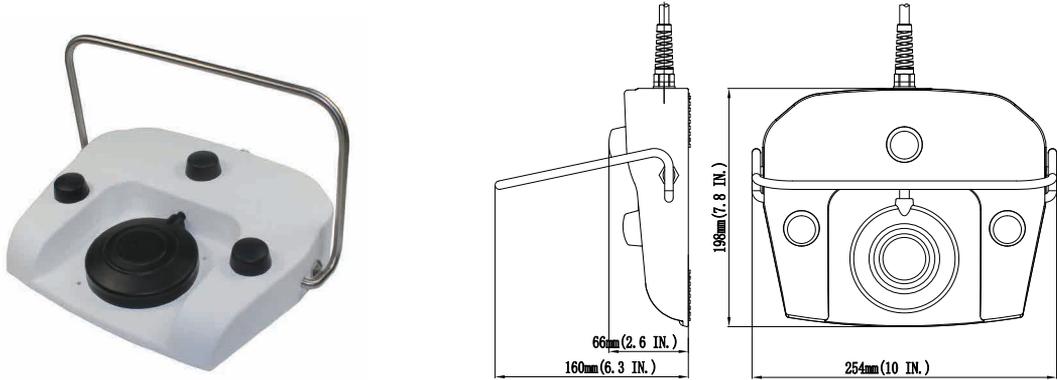


- FP-41-5-W-B2-H-8F-20/4S(B/B)** (20AWG×4, shielded, 8ft, 3×1NO, Standard Base, Black Pedal/Button, cable diameter 7.0mm)
FP-41-5-W-B2-H-8F-22/5S(B/B) (22AWG×5, shielded, 8ft, 3×1NO, Standard Base, Black Pedal/Button, cable diameter 5.6mm)

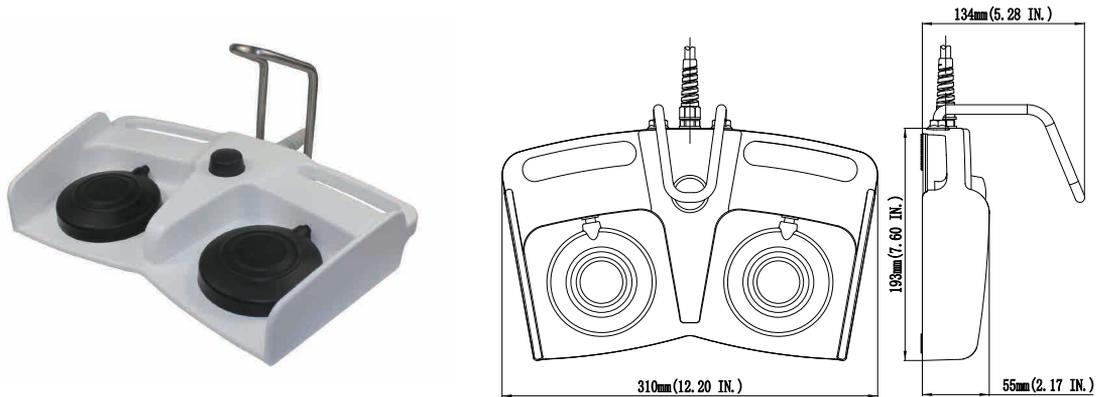


FP-4 Series Medical Foot Switches

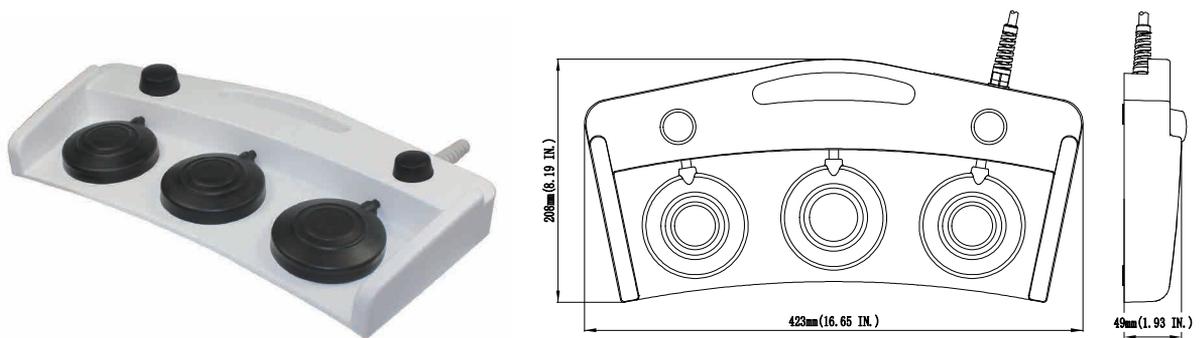
FP-41-5-W-B3-H-8F-22/5S-(L)(B/B) (22AWG×5, shielded, 8ft, 4×1NO, Large Base, Black Pedal/Button, cable diameter 5.6mm)



FP-42-5-W-B1-H-8F-20/4S-(S)(B/B) (20AWG×4, shielded, 8ft, 3×1NO, Small Base, Black Pedal/Button, cable diameter 7.0mm)
FP-42-5-W-B1-H-8F-22/5S-(S)(B/B) (22AWG×5, shielded, 8ft, 4×1NO, Small Base, Black Pedal/Button, cable diameter 5.6mm)



FP-43-5-W-B2-8F-20/6S-(B/B) (20AWG×6, shielded, 8ft, 5×1NO, Standard Base, Black Pedal/Button, cable diameter 6.7mm)



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

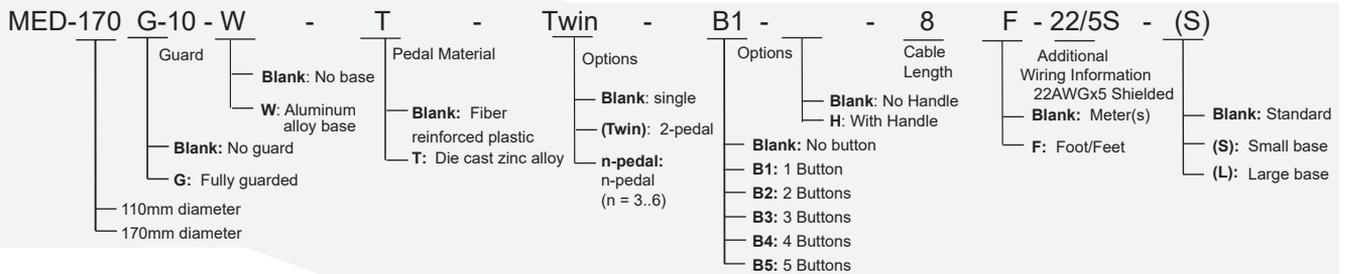
Features

- 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	2 x 10 ⁶ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IP68 (NEMA 4, 4x, 6, 6P)

Selection Guide:

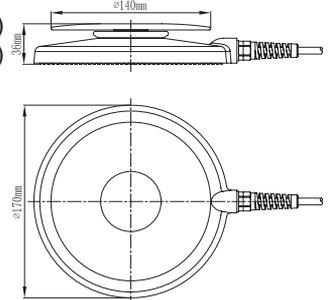


Dimensions:

MED-170-10-2-20/2S (20AWG×2, shielded, 2 meters, 1×1NO, cable diameter 4.8mm)

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

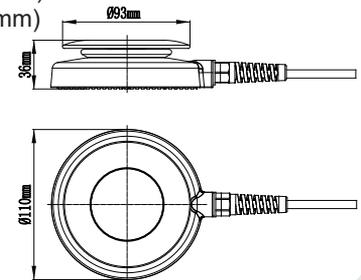
MED-170-10-T-2-22/5S (22AWG×5, shielded, 2 meters, 2NO/2NC, cable diameter 5.6mm)



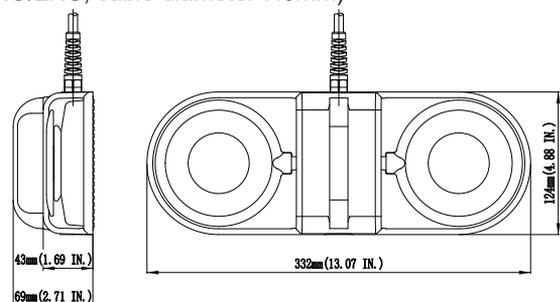
MED-110-10-2-20/2S (20AWG×2, shielded, 2 meters, 1×1NO, cable diameter 4.8mm)

MED-110-10-T-2-20/4S (20AWG×4, shielded, 2 meters, 2NO/2NC, cable diameter 7.0mm)

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



MED-110-10-(TWIN)-2-20/4S (20AWG×4, shielded, 2 meters, 2NO/2NC, cable diameter 7.0mm)



MED-100C Low Profile/Omni-Directional Industrial Foot Switches (IPX8)

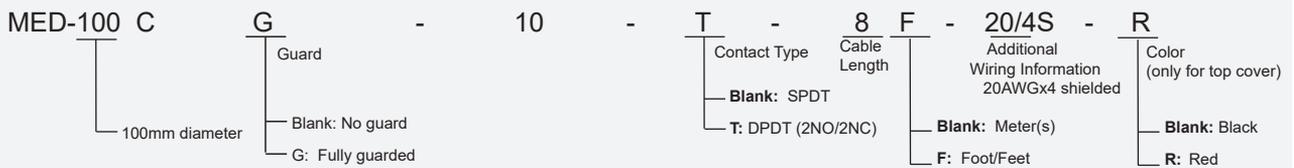
Features

- 360° actuation
- High mechanical stability
- Plastic body
- Custom color available

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	LS: 5A 120VAC V: 10A 125/250VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁵ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IPX8

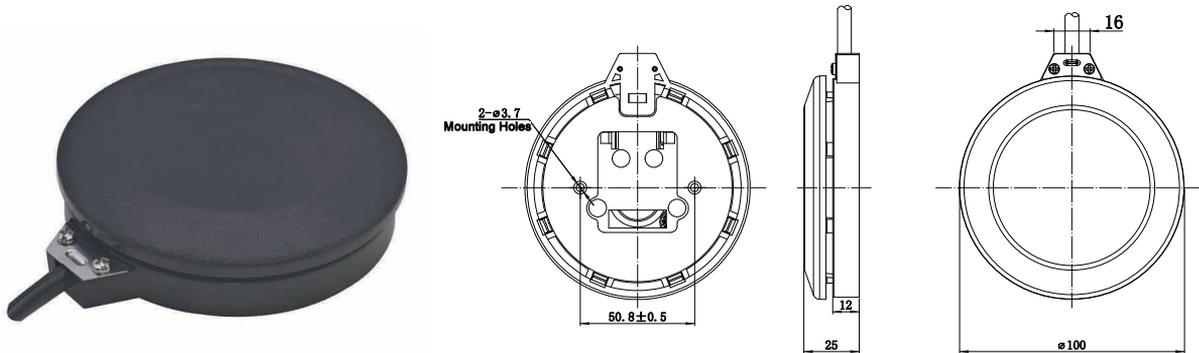
Selection Guide:



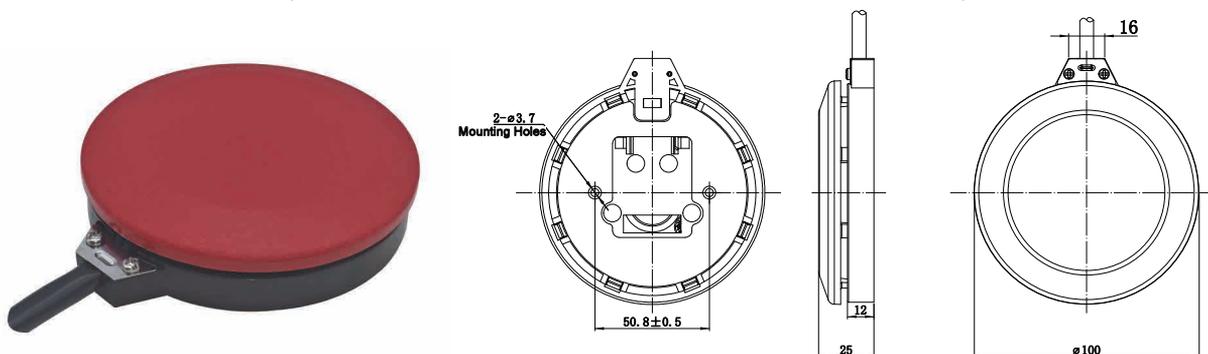
* LS is not available for T(DPDT)

Dimensions:

MED-100C-10-8F-20/2S (20AWG×2, shielded, 2 meters, 1×1NO, cable diameter 4.8mm)



MED-100C-10-8F-20/2S-R (20AWG×2, shielded, 2 meters, 1×1NO, cable diameter 4.8mm)



MED-145D Low Profile/Omni-Directional Industrial Foot Switches (IPX8)

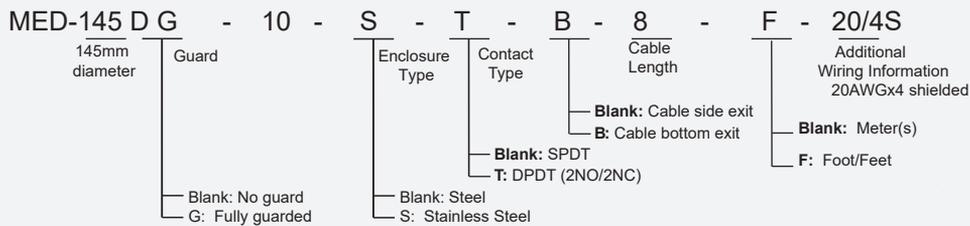
Features

- 360° actuation
- High mechanical stability
- Metal body
- Custom color available

Specifications

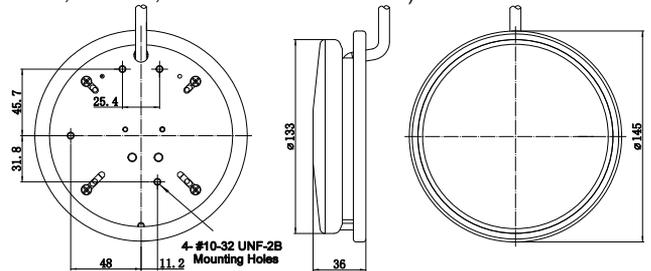
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A: 1/2HP 125/250VAC; 15A: 3/4HP 125VAC, 1-1/2HP 250VAC 20A: 1-1/2HP 125VAC, 2HP 250VAC 25A: 1-1/2HP 125VAC, 2HP 250VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IPX8

Selection Guide:

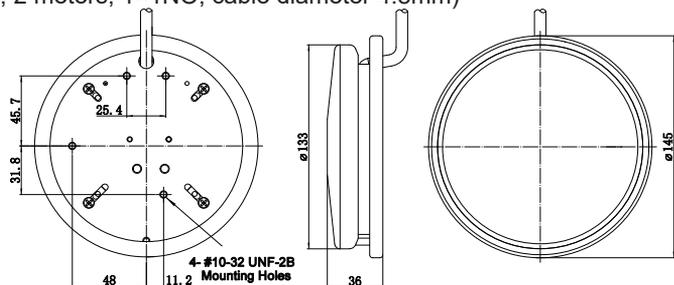


Dimensions:

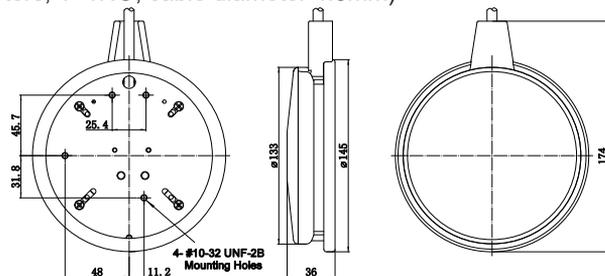
MED-145D-10-B-8F-20/2S (20AWG×2, hielded, 2 meters, 1×1NO, cable diameter 4.8mm)



MED-145D-10-S-B-8F-20/2S (20AWG×2, shielded, 2 meters, 1×1NO, cable diameter 4.8mm)



MED-145D-10-S-8F-20/2S (20AWG×2, shielded, 2 meters, 1×1NO, cable diameter 4.8mm)



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	1 x10 ⁶ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IPX8

Selection Guide:

FCP-14

-

8

Cable Length

F

-

24/15S

Additional Wiring Information
24AWGx15 Shielded

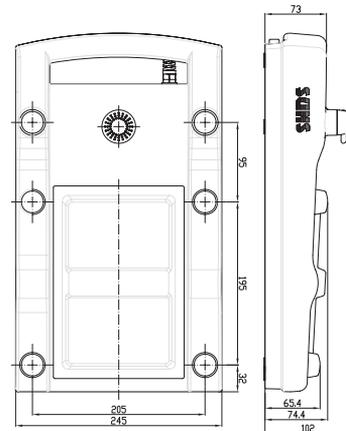
Blank: Meter(s)

F: Foot/Feet

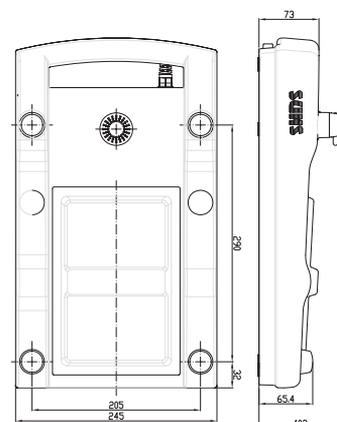
8-14 Function keys optional

Dimensions:

FCP-14



FCP-12



FSR Series Medical Foot Switches (IPX8, Rocker Style)

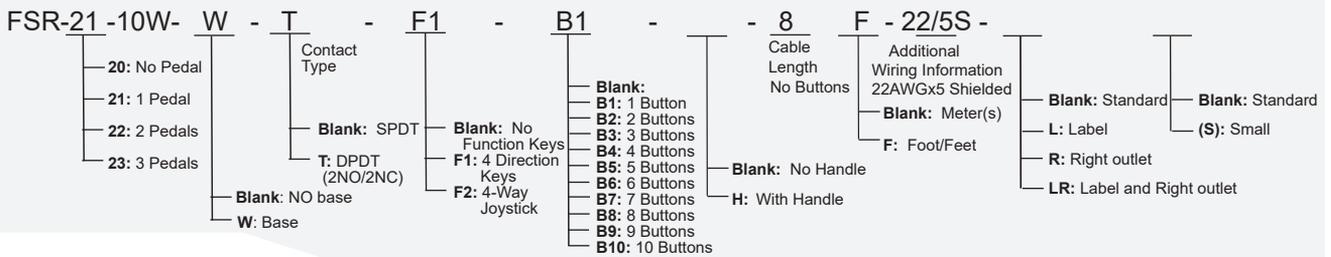
Features

- Aluminium alloy foot pedal
- Compact design
- Pedal rocks left and right for multifunction applications
- Various configurations available
- Comply with IEC60601-1 and YY1057 standards
- USB model is optional
- Wireless model is optional, only suitable with base

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (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	1 x10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

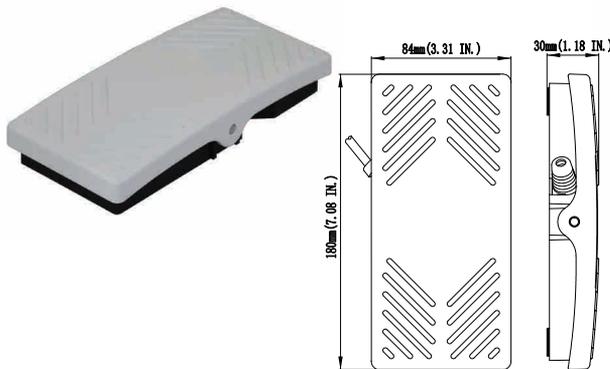
Selection Guide:



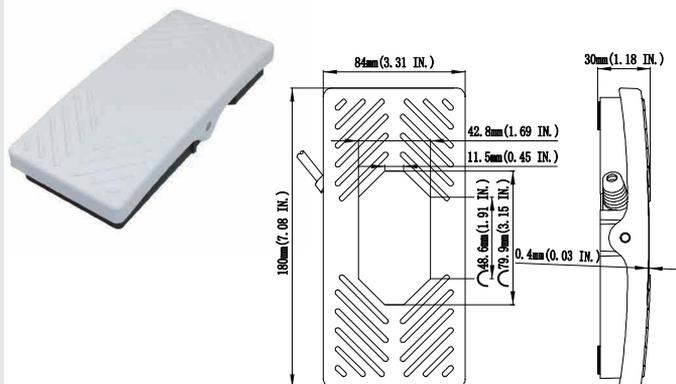
Dimensions:

*(S) is for dual pedals or three pedals, it is not suitable for F1 and B1 options

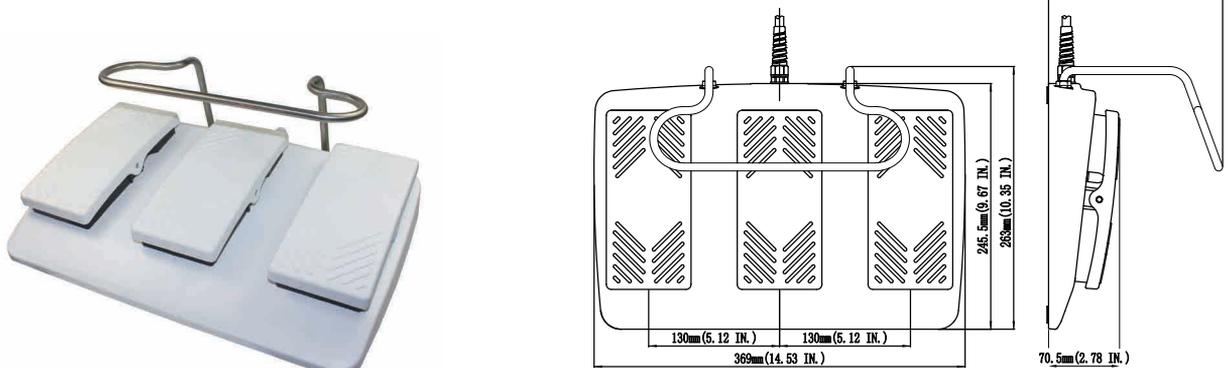
FSR-21-10W-2-20/4S
FSR-21-10W-T-2-22/5S



FSR-21-10W-2-20/4S-L

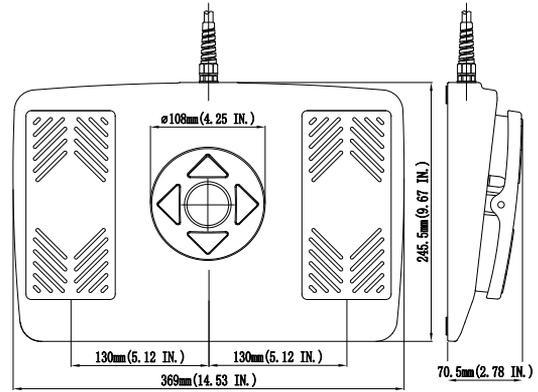


FSR-23-10W-W-H-2-22/8

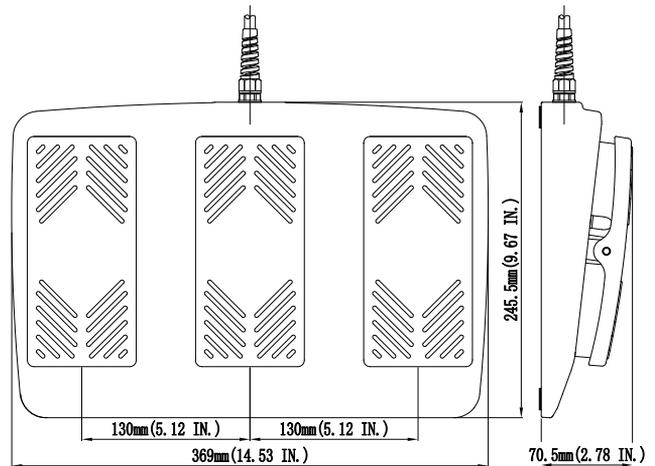


FSR Series Medical Foot Switches (IPX8, Rocker Style)

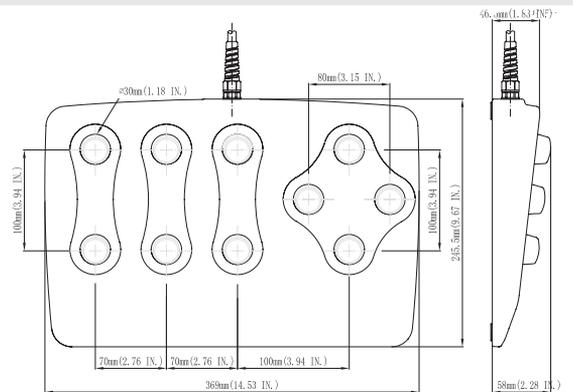
FSR-22-10W-W-F1-2-22/9



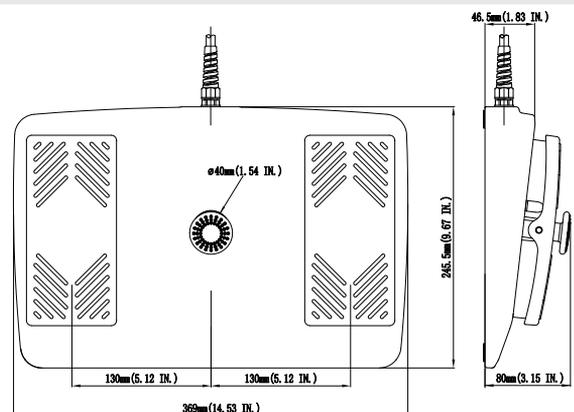
FSR-23-10W-W-2-22/8



FSR-20-10W-W-B10-2-24/15S

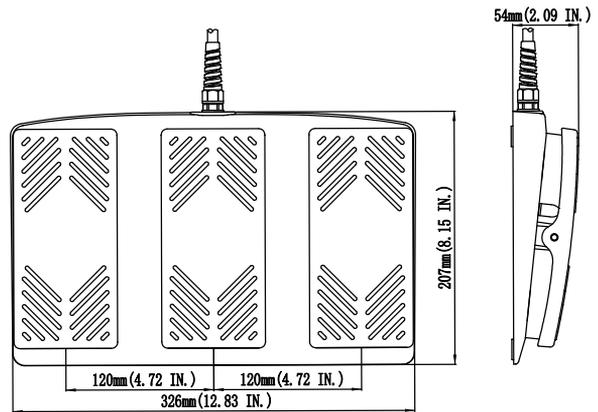


FSR-22-10W-W-F2-2-22/9

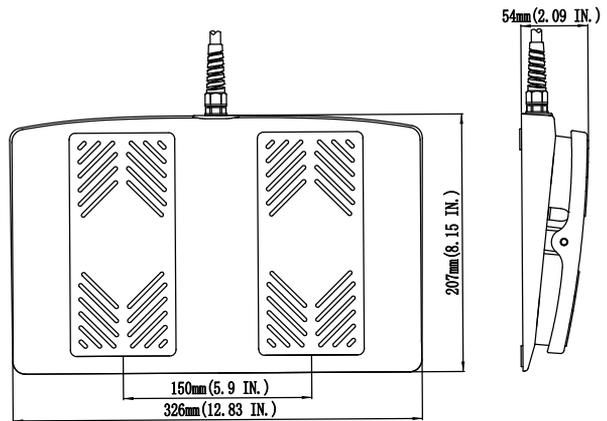


FSR Series Medical Foot Switches (IPX8, Rocker Style)

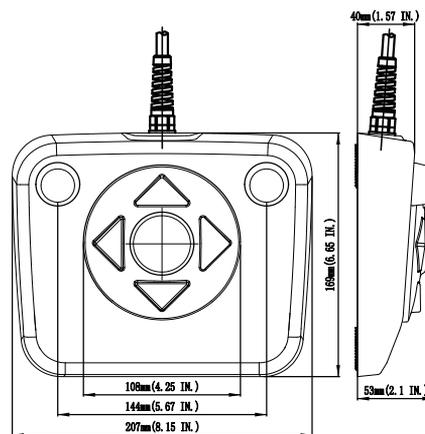
FSR-23-10W-W-2-22/8-(S)



FSR-22-10W-W-2-22/5S-(S)



FSR-20-10W-W-F1-B1-2-20/6S
FSR-20-10W-W-F1-B2-2-22/8



FS4R Series Medical Foot Switches (IPX8, Joypad Style)

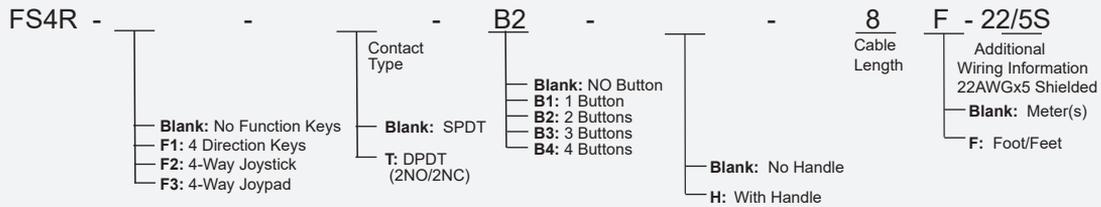
Features

- Aluminium alloy foot pedal
- Compact design
- 4-direction joypad for multifunction applications
- Various configurations available

Specifications

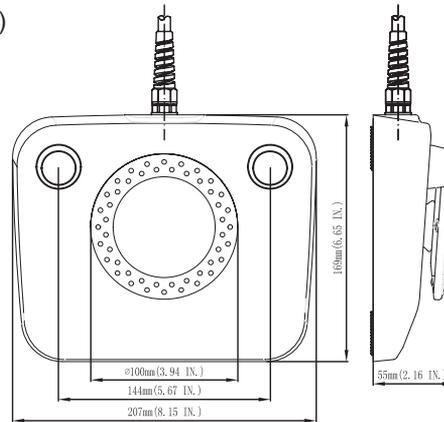
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/15A 1/2HP 250VAC
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

Selection Guide:

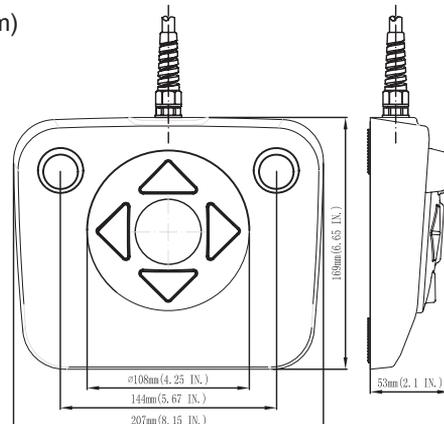


Dimensions:

FS4R-F3-B2-8F-22/8 (22AWG×8, 6×1NO, cable diameter 6.2mm)



FS4R-F1-B2-8F-22/8 (22AWG×8, 6×1NO, cable diameter 6.2mm)



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
- Alternative cover with custom legend markings 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	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8(NEMA 4, 4X, 6, 6P)

Selection Guide:

FS-91	G - 10W	-	M	-	8	F - 20/4S
Number of Pedals	Guard		Enclosure Type		Cable Length	Additional Wiring Information e.g. 20AWGx4 shielded
91: 1 Pedal	Blank: No guard		Blank: Fiber reinforced plastic			Blank: Meter(s)
92: 2 Pedals	G: Fully guarded		M: Zinc die cast			F: Foot/feet

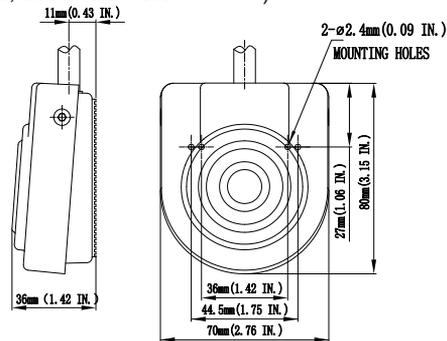
Dimensions:

* Standard pedal color: Black

FS-91-10W-8F-20/2S-U (20AWG×2, shielded, 8ft, 1NO, plastic, cable diameter 4.8mm)
FS-91-10W-M-8F-20/2S-U (20AWG×2, shielded, 8ft, 1NO, plastic, cable diameter 4.8mm)



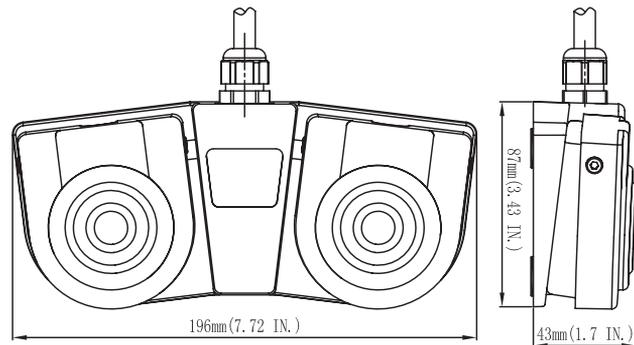
* Color code:(E.g.suffix:-U for blue)



FS-92-10W-8F-20/4S-YU/B (20AWG×4, shielded, 8ft, 2×1NO, plastic, cable diameter 7.0mm)
FS-92-10W-8F-22/5S-YU/B (22AWG×5, shielded, 8ft, 2×1NO, plastic, cable diameter 5.6mm)

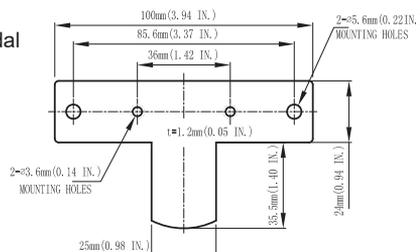


* Color code:(E.g.suffix:-YU/B for yellow/blue pedals on black base)

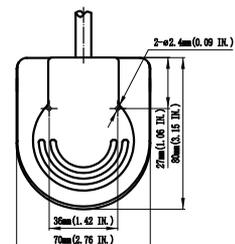


Options:

Mounting Plate for Single-Pedal
P/N: FS91-MP



Contact us for
Alternative Cover
with Legend Marking:



FS6 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

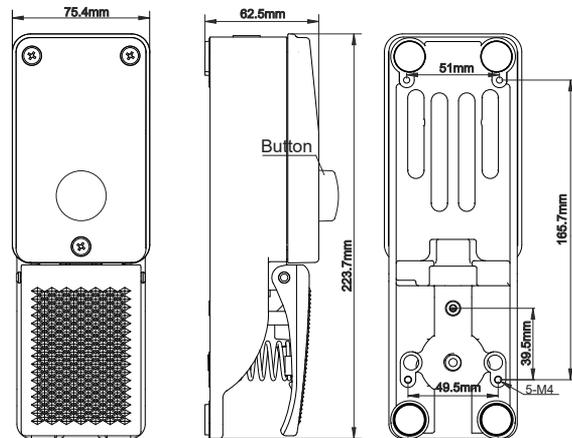
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A/600V AC A600/AC15 Q300/DC13
Inrush Current	Complies with IEC947-5-1: AC15/DC13
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8

Selection Guide:

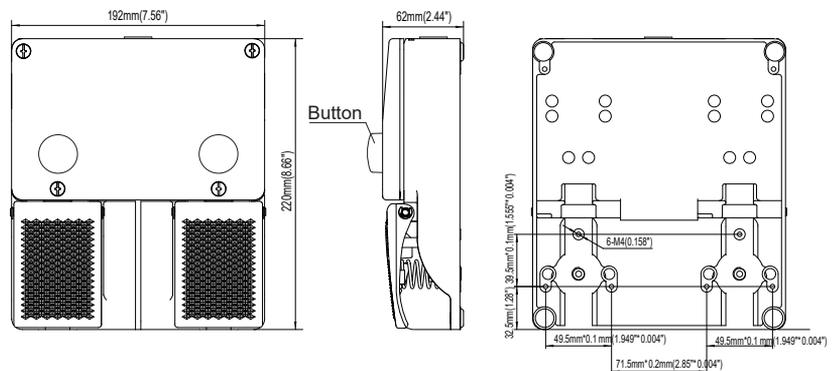
FS - 61	-	G	-	SP	-	T	-	C	-	B1	-	U/W	-	N
Number of Pedals		Guarding Options		Switch Type		Switch Configuration		Conduit Type		Optional Pushbutton		Pedal Color/ Enclosure Color		
61: 1 pedal 62: 2 pedals		Blank: No guard G: Fully guarded		SP: 10A snap action SL: 10A slow action		Blank: SPDT T: DPDT S: 2 stages		A: 1/2NPT B: PG13.5 C: M20 x1.5		Blank: NO button B1: 1 buttons B2: 2 buttons		U: Blue W: White B: Black O: Orange Y: Yellow R: Red		

Dimensions:

FS-61-SP-_-U/W-N
FS-61-SL-_-U/W-N
FS-61-SP-_-B1-U/W-N
FS-61-SL-_-B1-U/W-N



FS-62-SP-_-YU/W-N
FS-62-SL-_-YU/W-N
FS-62-SP-_-B1-YU/W-N
FS-62-SL-_-B1-YU/W-N
FS-62-SP-_-B2-YU/W-N
FS-62-SL-_-B2-YU/W-N



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	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP68

Selection Guide:

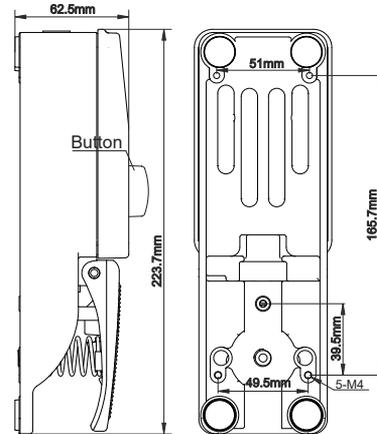
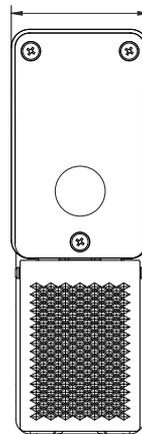
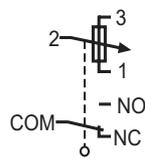
FSC - 61	- G	- 2A	- T	- C	- 1K	- B1	- U/W	- N
Number of Pedals	Guarding Options	Switch Type	Switch Configuration	Conduit Type	Options	Options	Pedal Color/Enclosure Color	
61: 1 pedal 62: 2 pedals	Blank: No guard G: Fully guarded	2A: 2A 250VAC 10A: 10A 250VAC	Blank: SPDT T: DPDT	A: 1/2NPT B: PG13.5 C: M20 x1.5	1K: 1K potentiometer 5K: 5K potentiometer 10K: 10K potentiometer	Blank: No button B1: 1 button B2: 2 buttons	U: Blue W: White B: Black O: Orange Y: Yellow R: Red	

Dimensions:

FSC-61-2A-_-1K-B1-U/W-N
FSC-61-2A-_-5K-B1-U/W-N
FSC-61-2A-_-10K-B1-U/W-N



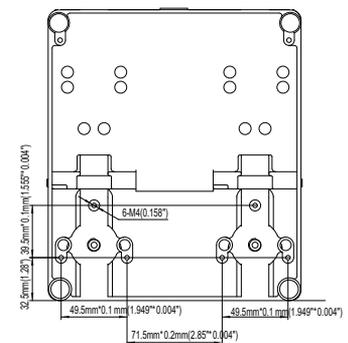
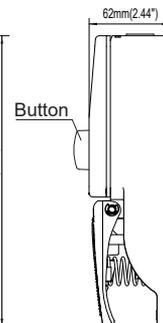
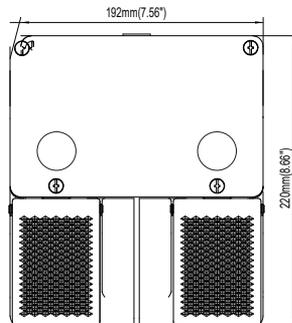
Wiring Diagram



FSC-62-2A-_-1K-B2-YU/W-N
FSC-62-2A-_-5K-B2-YU/W-N
FSC-62-2A-_-10K-B2-YU/W-N



Wiring Diagram



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

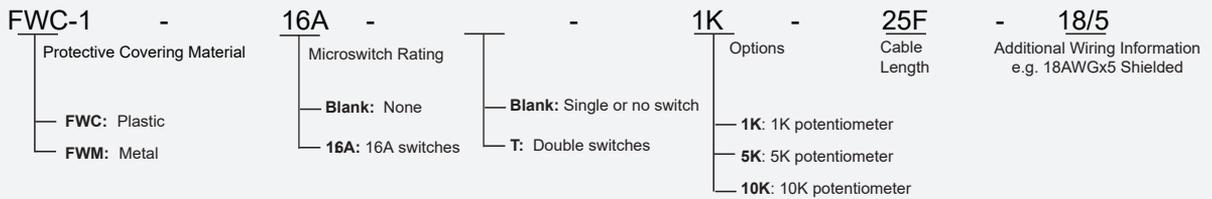
Features

- 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

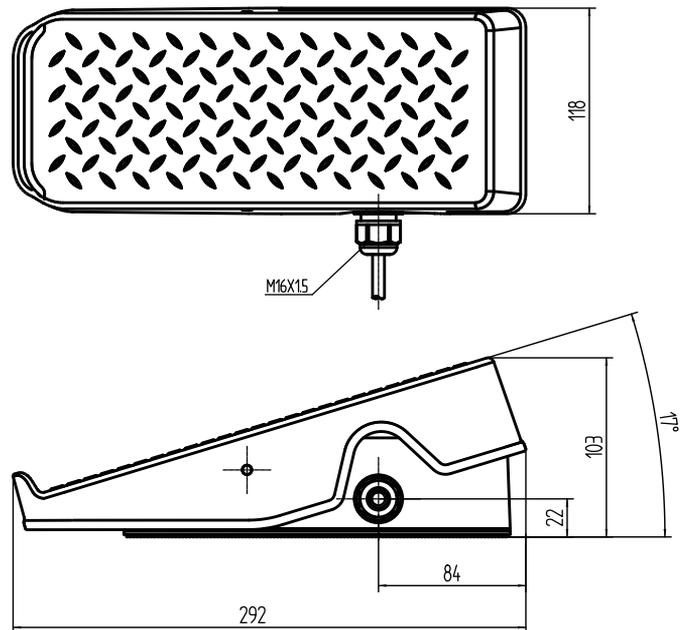
Specifications

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	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP68/NEMA 6,6P

Selection Guide:



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

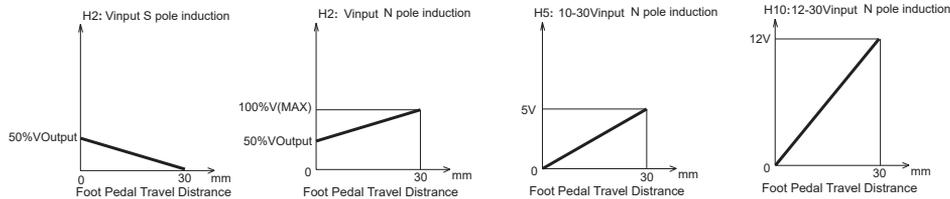
Specifications

Supply Voltage (Vs)	Switch output H1: 3.8-30VDC Analog output H2: 4.5-10.5 VDC H5: 12-30 VDC H10: 12-30 VDC
Output Type	Linear output or switch output
Output Voltage	See the graph below
Output Current	H1: 20mA H2: 7mA H5/H10: 20mA
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP68

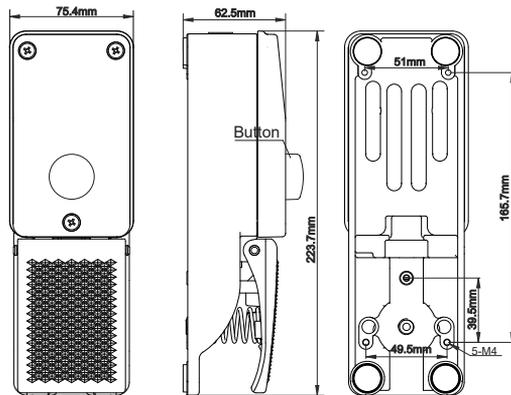
Selection Guide:

FS - 61	-	G	-	H1	-	N	-	A	-	B1	-	8	-	F - 24/3	-	U/W	-	N
Number of Pedals		Guard		H1:10-30VDC switch input H2:4.5-10.5VDC analog input H5:10-30VDC input analog output 0-5V H10:12-30VDC 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		Pedal Color/ Enclosure Color		
61: 1 pedal 62: 2 pedals		Blank: No guard G: Fully guarded						A: 1/2NPT C: M20 x 1 D: M16 x 1.5		Blank: No button B1: One button B2: Two buttons				Blank: Meter(s) F: Foot/feet		U: Blue W: White B: Black O: Orange Y: Yellow R: Red		

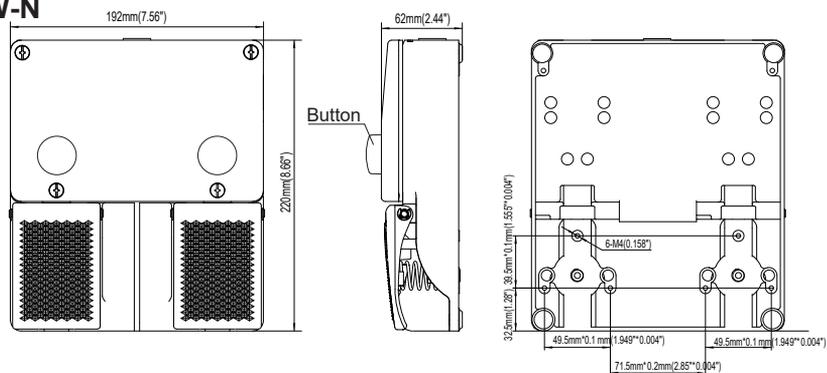
Dimensions:



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



FS-62-H2-N-C-B2-2-22/9-YU/W-N



FS-71 Series Medical Foot Switches

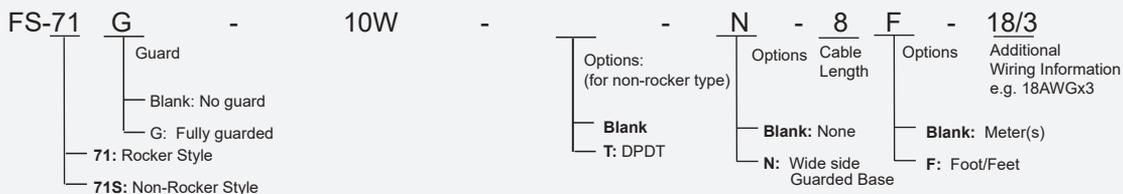
Features

- 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)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8/NEMA 4,4X,6,6P (add -w suffix)

Selection Guide:



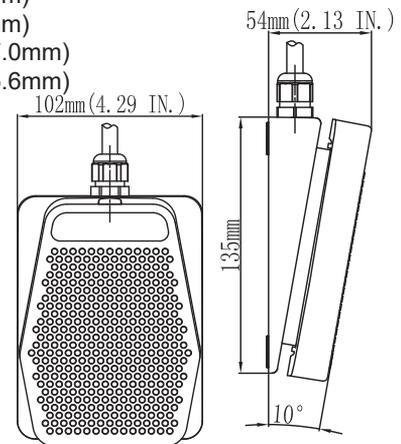
Dimensions:

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

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

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

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

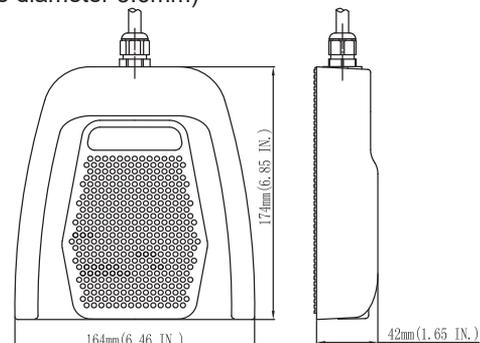


FS-71-10W-N-2-20/4S (20AWGx4, shielded, 2 meters, 2x 1NO, cable diameter 7.0mm)

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

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

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



FS-72 Series Medical Foot Switches

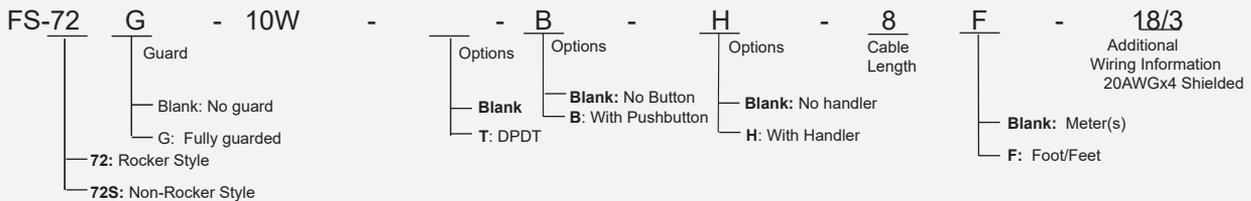
Features

- 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	1 x10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8/NEMA 4,4X,6,6P (add -w suffix)

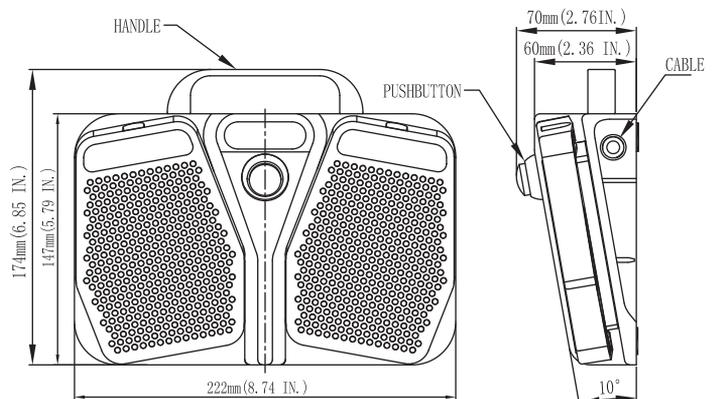
Selection Guide:



* Offer custom cable and connector according to customer requirements.

Dimensions:

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



FS-73/FS-74 Series Medical Foot Switches

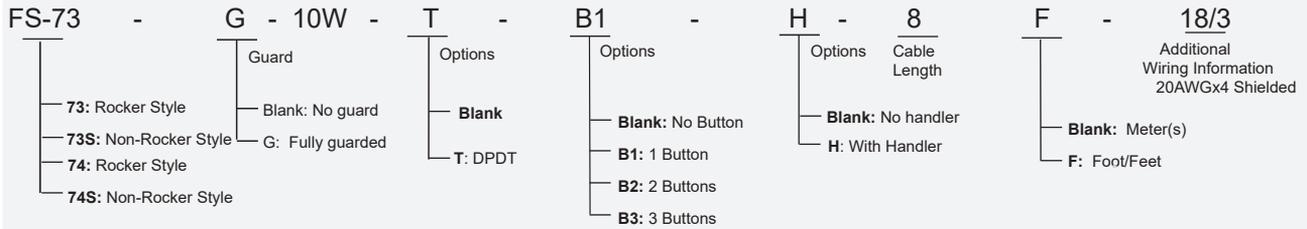
Features

- 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	1 x10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IPX8/NEMA 4,4X,6,6P (add -w suffix)

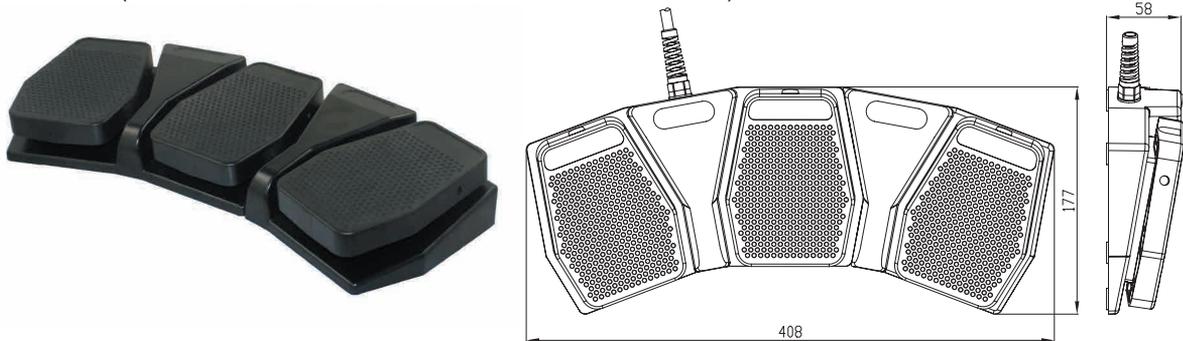
Selection Guide:



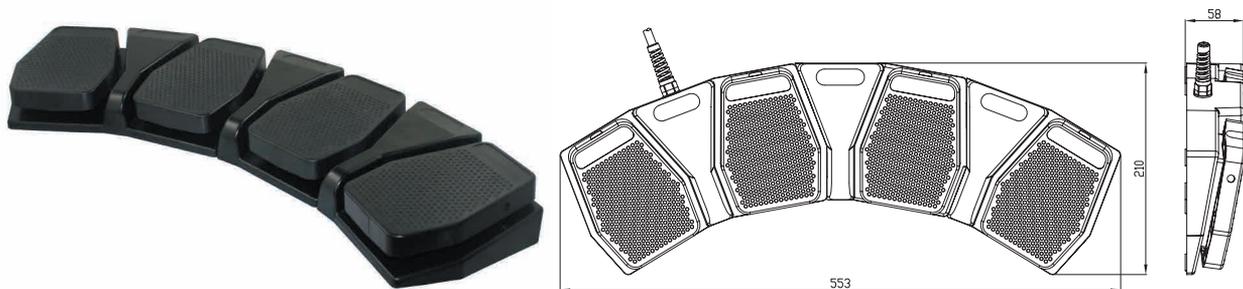
Dimensions:

* Offer custom cable and connector according to customer requirements.

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



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



FSBM-1 Series Medical Foot Switches

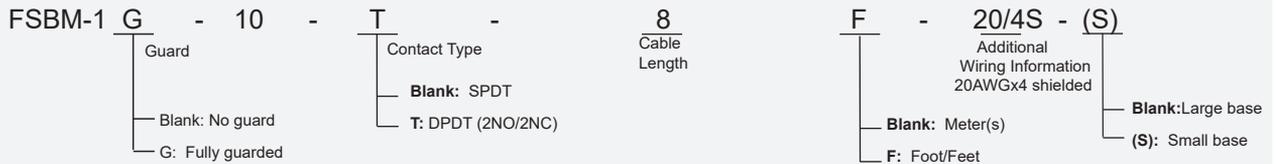
Features

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

Specifications

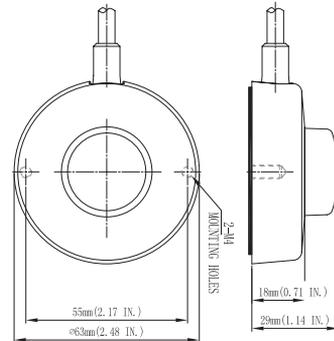
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	5A or 10A 0-250V
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁶ (operations)
Operating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

Selection Guide:

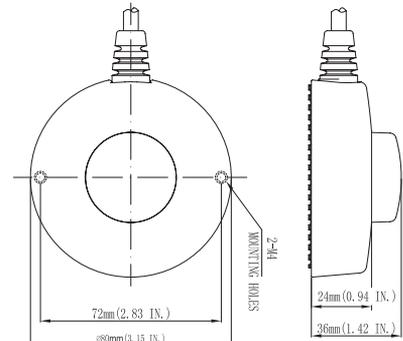


Dimensions:

- FSBM-1-10-2-20/2S-(S)** (20AWGx2, shielded, 2 meters, 1×1NO, cable diameter 4.8mm)
FSBM-1-10-T-2-20/4S-(S) (20AWGx4, shielded, 2 meters, 2×1NO, cable diameter 7.0mm)
FSBM-1-10-T-2-22/5S-(S) (22AWGx5, shielded, 2 meters, 2×1NO, cable diameter 5.6mm)



- FSBM-1-10-2-20/2S** (20AWGx2, shielded, 2 meters, 1×1NO, cable diameter 4.8mm)
FSBM-1-10-T-2-20/4S (20AWGx4, shielded, 2 meters, 2×1NO, cable diameter 7.0mm)
FSBM-1-10-T-2-22/5S (22AWGx5, shielded, 2 meters, 2×1NO, cable diameter 5.6mm)



FSB2/FSB3 Series Medical Foot Switches

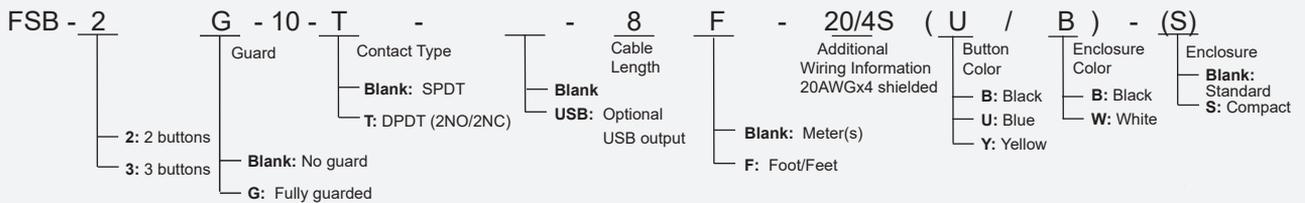
Features

- Ergonomic low profile design
- Compact Enclosure available
- Button available 2 to 3
- Easy to clean
- High mechanical stability
- Soft touch button with light operating force
- Conforms to IEC60601-1 and YY1057
- USB and Wireless version available

Specifications

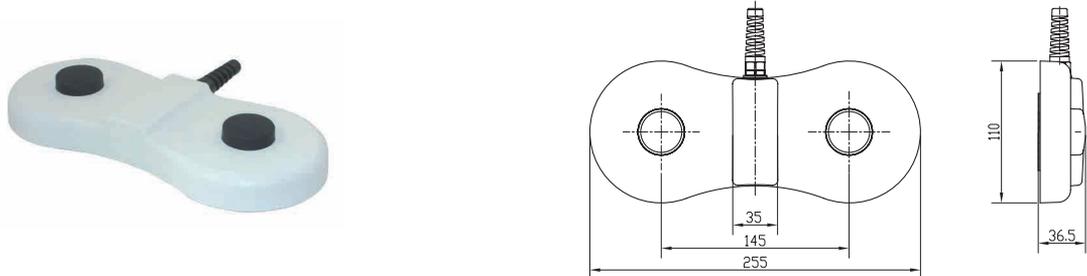
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	10A, 1/2HP, 125/250VA
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁶ (operations)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

Selection Guide:

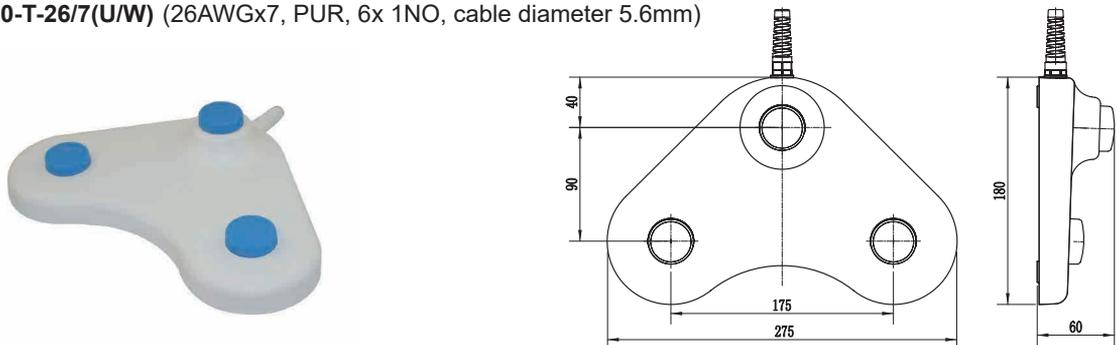


Dimensions:

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

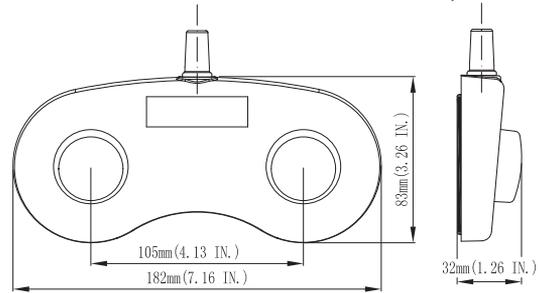


- FSB-3-10-2-20/4S(U/W)** (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
FSB-3-10-2-22/5S(U/W) (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
FSB-3-10-T-26/7(U/W) (26AWGx7, PUR, 6x 1NO, cable diameter 5.6mm)

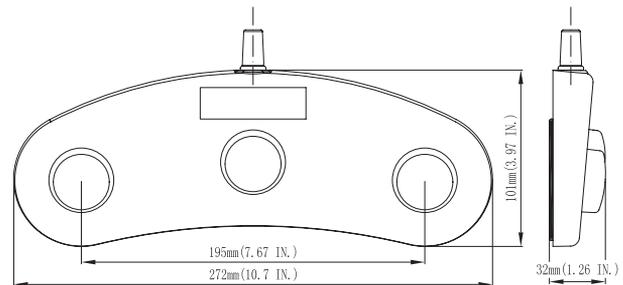


FSB-2/FSB-3 Series Medical Foot Switches

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



FSB-3-10-2-20/4S(U/B)-(S) (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)
FSB-3-10-2-22/5S(U/B)-(S) (22AWGx5, shielded, 2 meters, 3x 1NO, cable diameter 5.6mm)
FSB-3-10-T-2-26/7(U/B)-(S) (26AWGx7, PUR, 2 meters, 6x 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

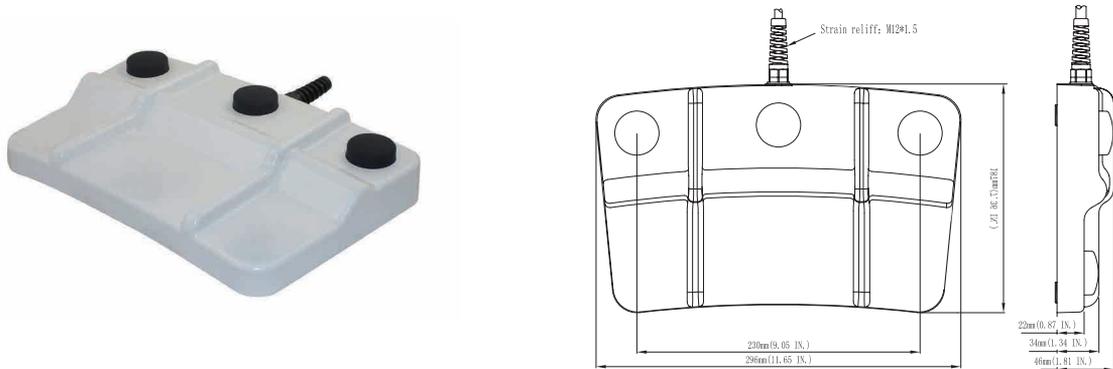
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	15A, 1/2HP, 125/250VAC or 20A 1HP 125VAC, 2HP 250VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	20~+80°C (-4~176°F)
Degree of Protection	IP68 (NEMA 4, 4x, 6, 6P)

Selection Guide:

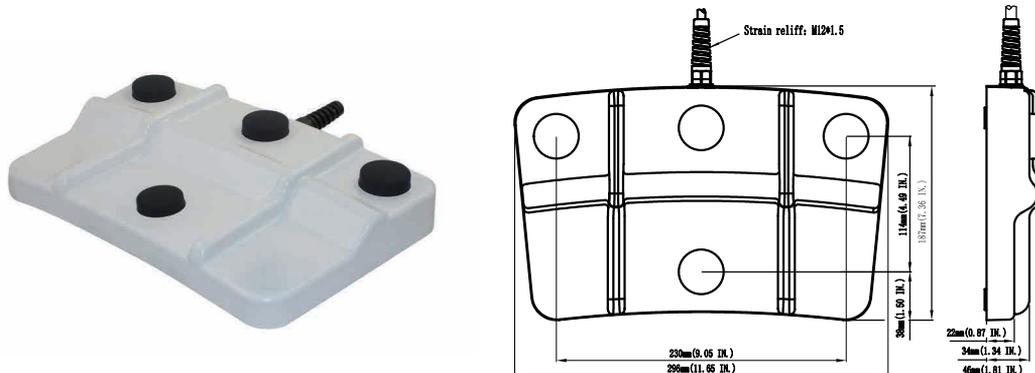


Dimensions:

FSB-63-10-2-20/4S (20AWGx4, shielded, 2 meters, 3x 1NO, cable diameter 7.0mm)

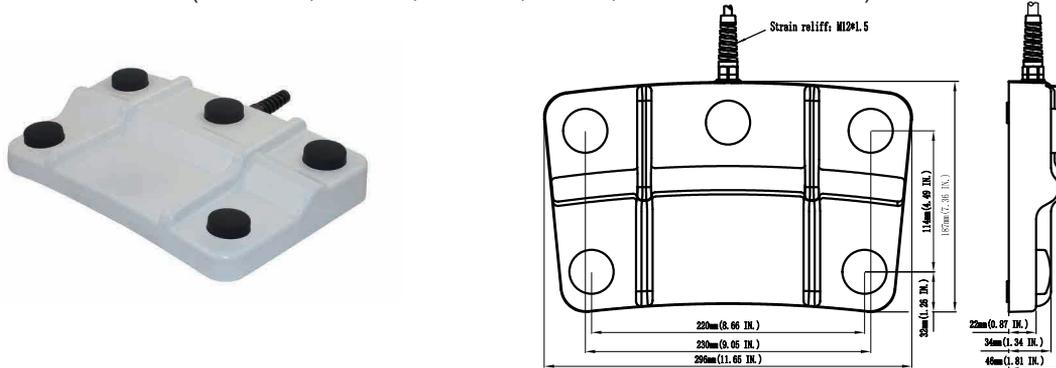


FSB-64-10-2-22/5S (22AWGx5, shielded, 2 meters, 4x 1NO, cable diameter 5.6mm)

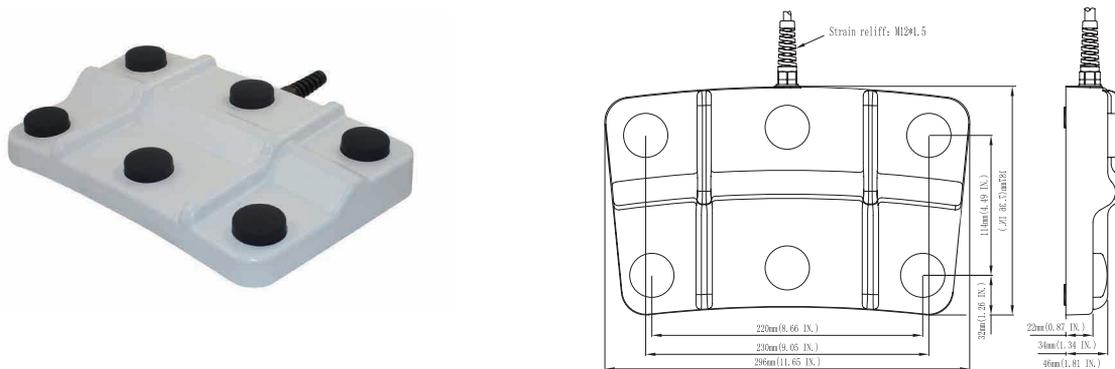


FSB-6 Medical Footswitches (IPX8)

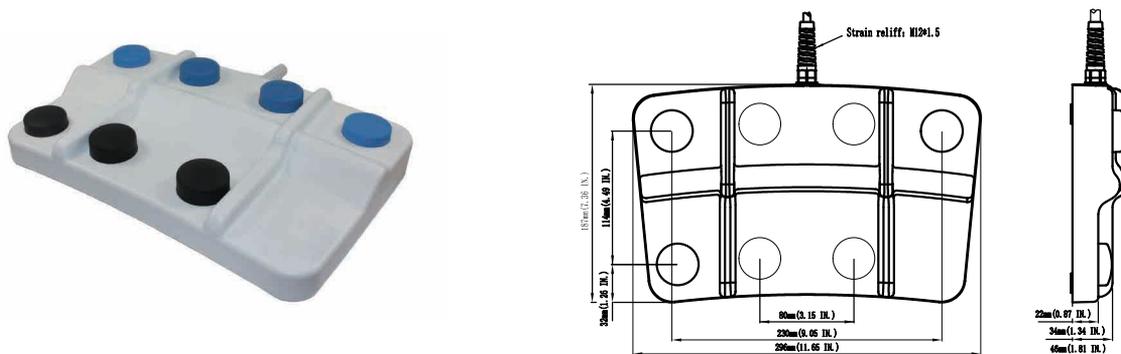
FSB-65-10-2-20/6S (20AWGx6, shielded, 2 meters, 5×1NO, cable diameter 6.7mm)



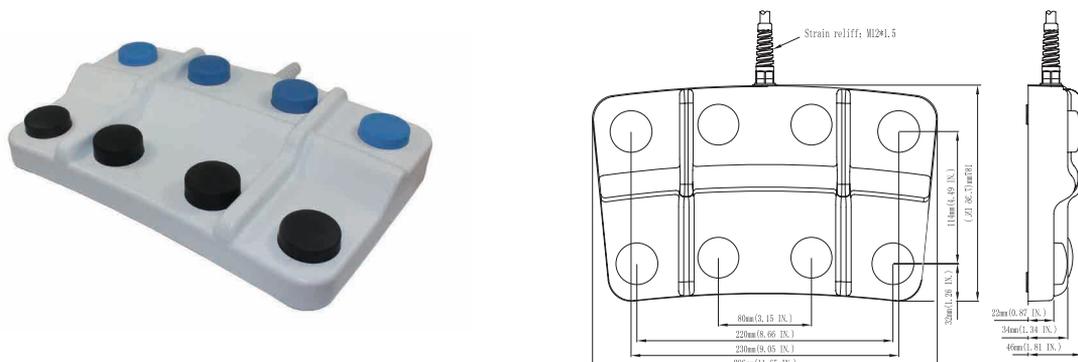
FSB-66-10-26/7 (26AWGx7, PUR, coiled, 6x 1NO, cable diameter 5.3mm)



FSB-67-10-2-22/8



FSB-68-10-2-22/9



FS-6 Series Wireless Medical Foot Switches

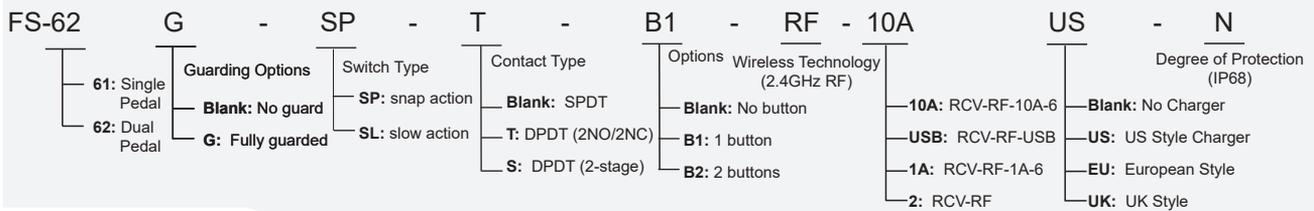
Features

- 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 with low voltage alerts
- Long battery life
- Comply with IEC60601-1 and YY1057 standards

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Reference Receiver Module
Service Life	1 x10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Protocols	IEC802.15.1
Standards	EN 300 328,V1.7.1; IEC 60601-1-2; EN 301 489-1,V.1.8.1 EN301 489-17,V2.1.1
Degree of Protection	IP68

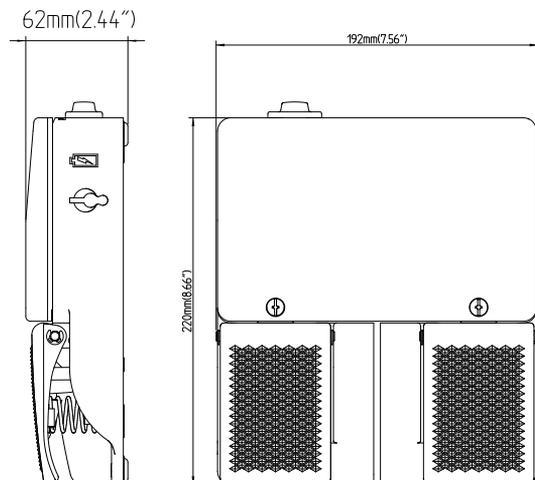
Selection Guide:



Dimensions:

* For more receiver modules, please go to page 51

FS-62-SP-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



Power supply: 10-30VAC/DC
Output: 1A switch volume

RCV-RF

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



Power supply: 3.3VDC
Output: 6mA IC level change

* Contact us for custom circuit for OEM applications

FS-72 Series Wireless Medical Foot Switches (IPX8)

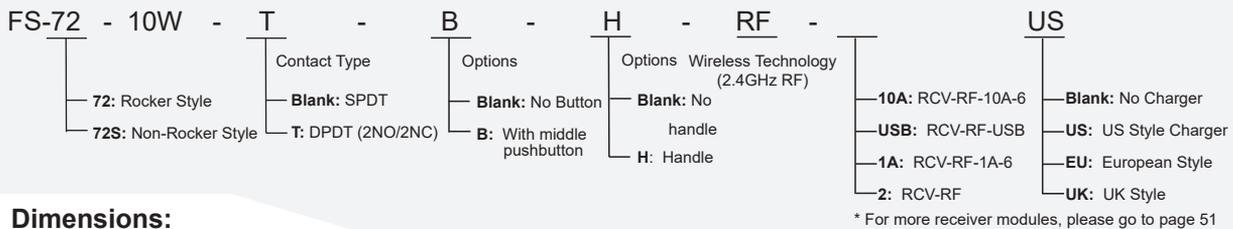
Features

- 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
- Comply with IEC60601-1 and YY1057 standards

Specifications

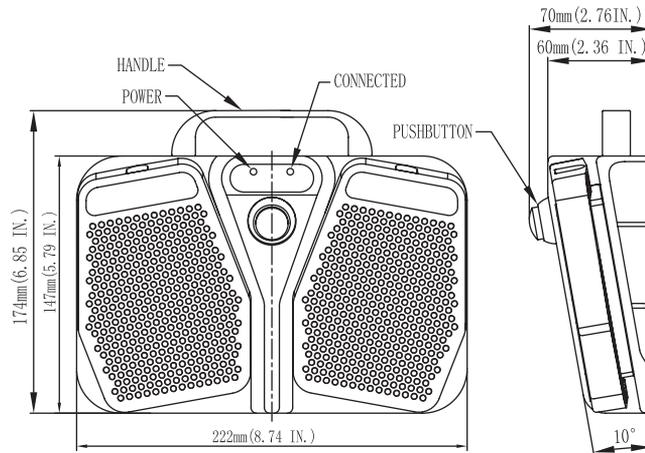
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Reference Receiver Module
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	-10~+80°C (14~176°F)
Transmission Frequency	2.40 - 2.483 GHz
Protocols	IEC802.15.1
Standards	EN 300 328,V1.7.1; IEC 60601-1-2; EN 301 489-1,V.1.8.1 EN301 489-17,V2.1.1
Degree of Protection	IPX8

Selection Guide:



Dimensions:

- FS-72S-10W-H-RF (2.4GHz, 2 channels)
- FS-72S-10W-B-H-RF (2.4GHz, 3 channels)
- FS-72-10W-H-RF (2.4GHz, 4 channels)
- FS-72-10W-B-H-RF (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



Power supply: 10-30VAC/DC
Output: 1A switch volume

RCV-RF

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



Power supply: 3.3VDC
Output: 6mA IC level change

* Contact us for custom circuit for OEM applications

FS-8 Series Wireless Medical Foot Switches (IPX8)

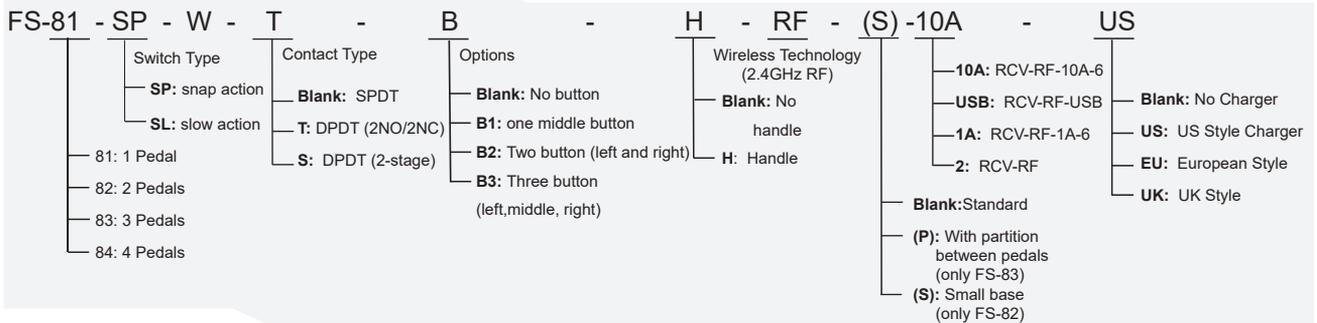
Features

- 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
- Comply with IEC60601-1 and YY1057 standards

Specifications

Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	Reference Receiver Module
Control Distance	10 meters
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Protocols	IEC802.15.1
Standards	EN 300 328,V1.7.1; IEC 60601-1-2; EN 301 489-1,V.1.8.1 EN301 489-17,V2.1.1
Degree of Protection	IPX8

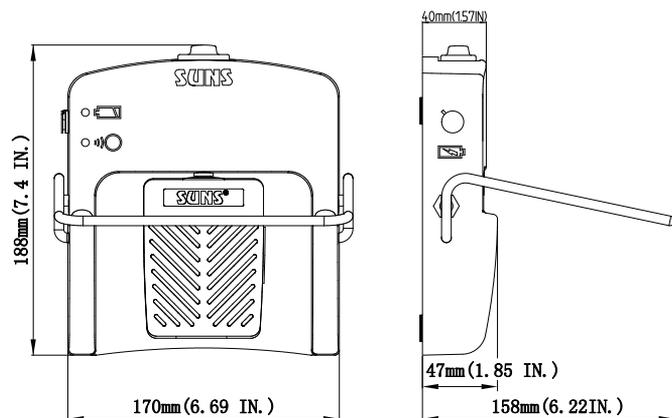
Selection Guide:



* For more receiver modules, please go to page 51

Dimensions:

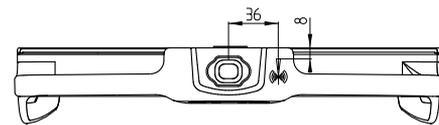
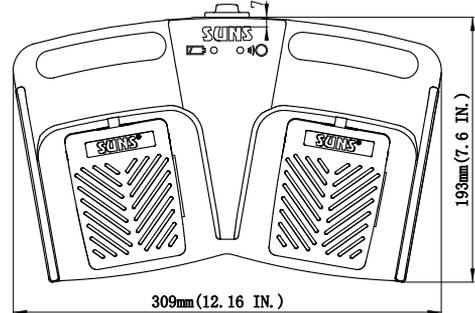
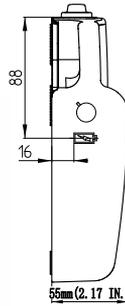
FS-81-SP-W-RF



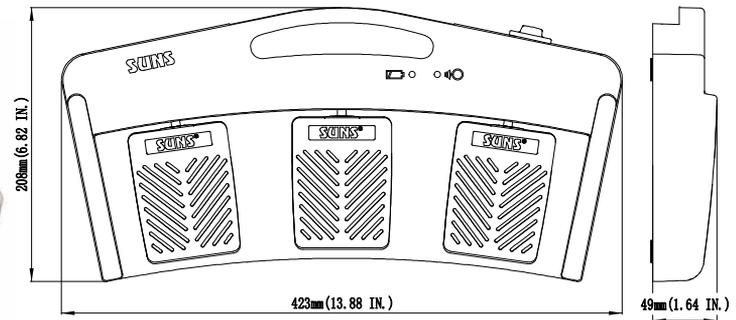
FS-8 Series Wireless Medical Foot Switches (IPX8)

Dimensions:

FS-82-SP-W-RF-(S)



FS-83-SP-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



Power supply: 10-30VAC/DC
Output: 1A switch volume

RCV-RF

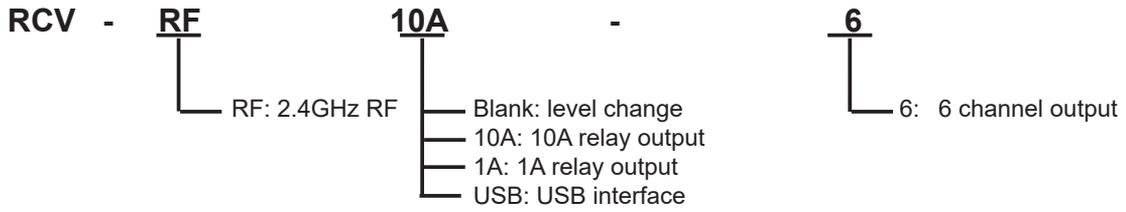
1-6 channels are optional and can be customized according to customer requirements



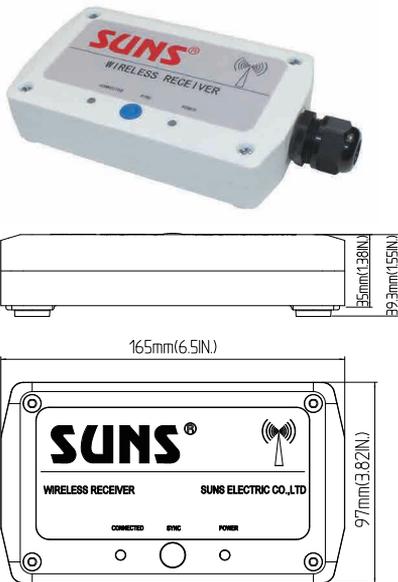
Power supply: 3.3VDC
Output: 6mA IC level change

* Contact us for custom circuit for OEM applications

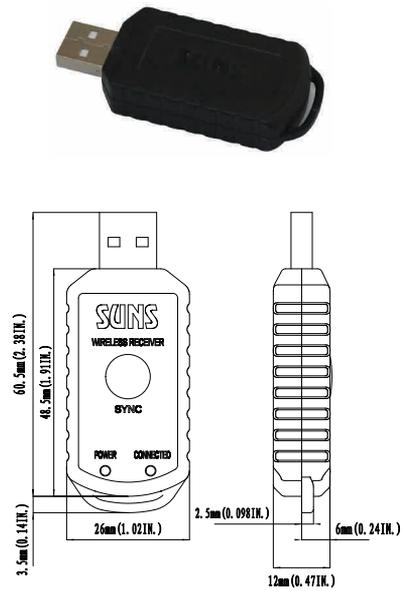
Standard Receiver Module



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

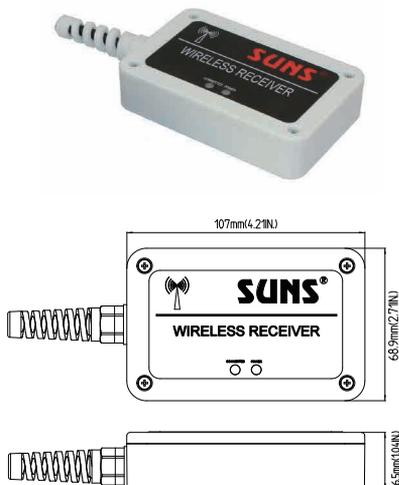


RCV-RF-USB
Power supply: 4.75-5.25VDC



RCV-RF-1A-6

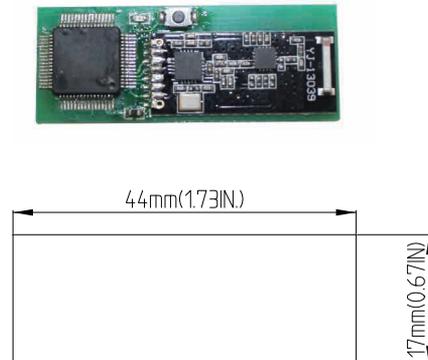
Power supply: 10-30VAC/DC
Output: 1A switch volume



RCV-RF

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

Power supply: 3.3VDC
Output: 6mA IC level change



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	1 x 10 ⁶ (operations)
Operating Temperature	-30~+80°C (-22~176°F)
Degree of Protection	IP20/NEMA 1 or IPX8/NEMA 4,4X,6,6P

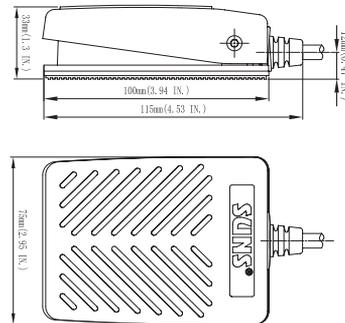
Selection Guide:

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-PEDAL): 3-pedal				

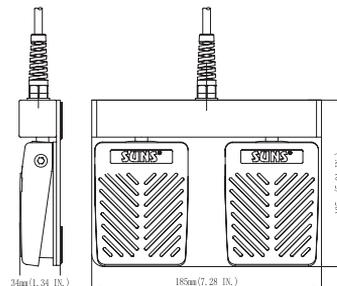
* Although only FS-81 is listed, all Suns medical foot switches are available in USB.

Dimensions:

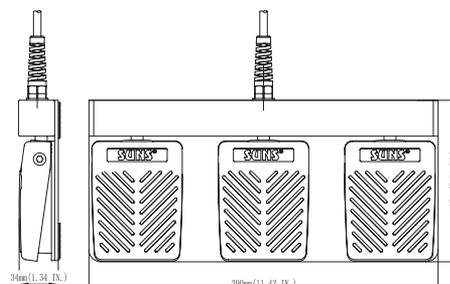
FS-81-10-USB (IP20)
FS-81-SP-USB (IPX8)



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)



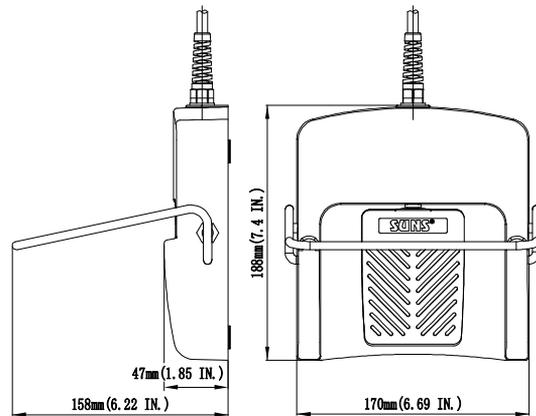
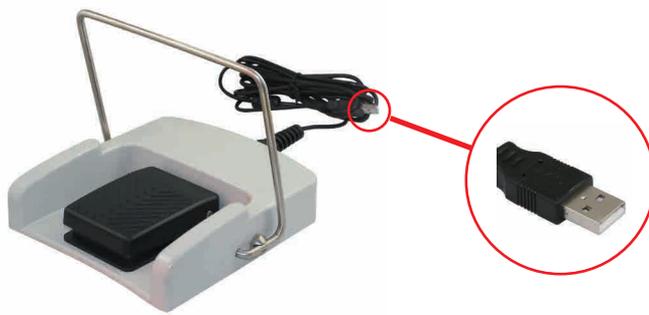
Medical Grade USB Foot Switches

Selection Guide:

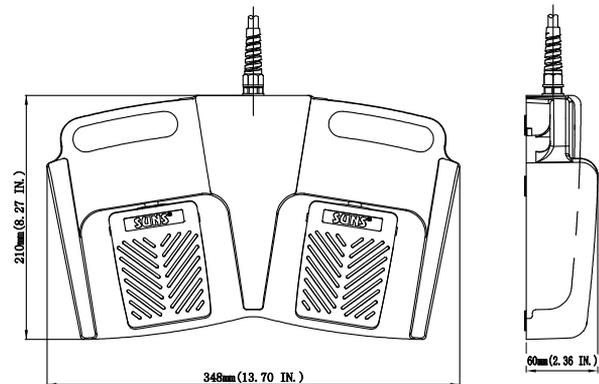
FS-81	-	SP	-	W	-	M	-	USB
Options		Switch Type				Pedal Material		Wiring Information (standard with 3 meters cable)
81: Single pedal		SP:10A Snap action(IPX8)				Blank: Fiber reinforced plastic		
82: 2-pedal						M: Die cast zinc		
83* 3-pedal								

Dimensions:

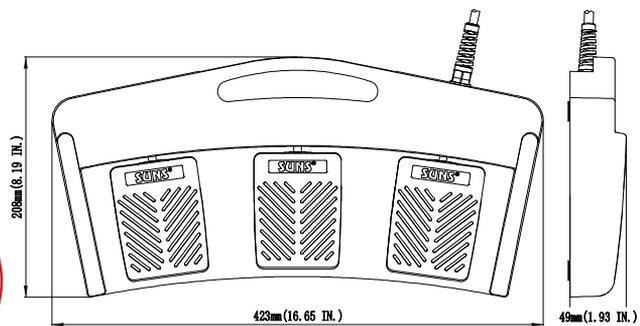
FS-81-SP-W-USB(IPX8)



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



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



FAS Series Air Actuated Switches

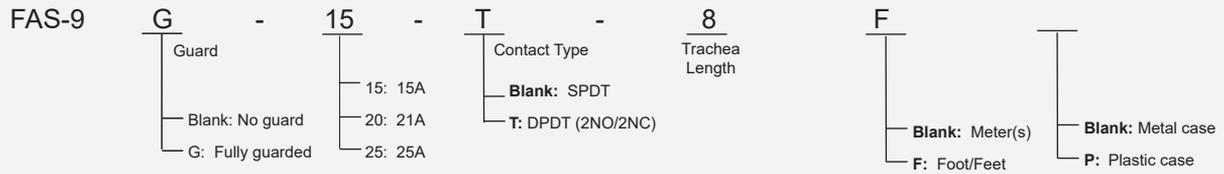
Features

- Long life air bulb actuator
- Remotely located air operated electric snap switch
- Supplied with a 10 foot 1/8" ID PVC tubing connecting the foot pedal to the remote airswitch
- Remote switch equipped with a 9/16" U.N.F. bulkhead mount
- Isolating the electrically live snap switch from the floor
- Offers environmental protection from short or shock

Specifications

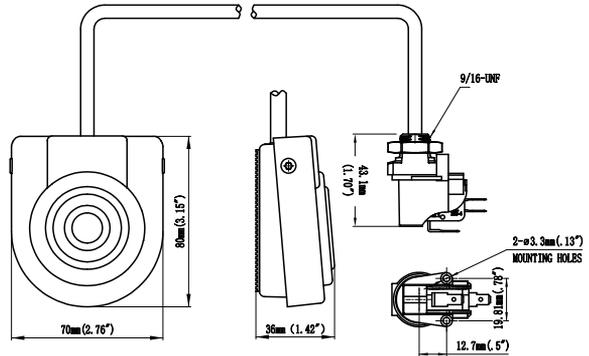
Operating Frequency	60 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial)
Rated Current/Voltage	15A, 1/2HP, 125/250VAC or 21A 1HP 125VAC, 2HP 250VAC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	1 x 10 ⁶ (operations)
Operating Temperature	-20~+80°C (-4~176°F)
Degree of Protection	IP68 (NEMA 4, 4x, 6, 6P)

Selection Guide:

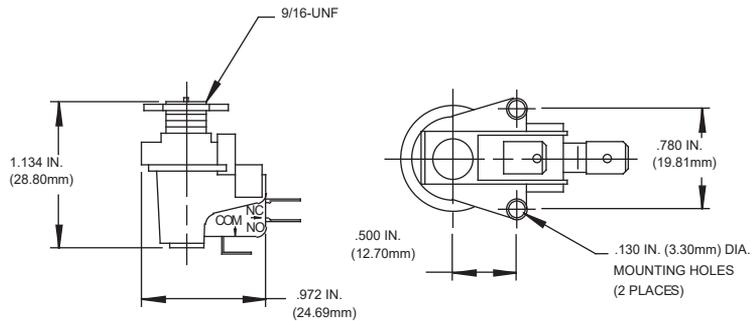


Dimensions:

FAS-9-15-3
FAS-9-20-3
FAS-9-15-3-P
FAS-9-20-3-P



AS-15
AS-20



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

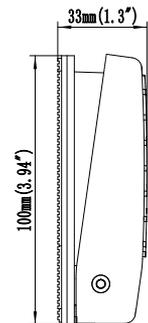
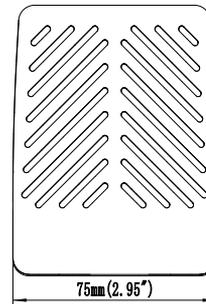
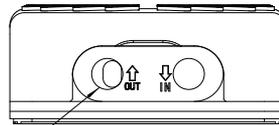
- Aluminum alloy or zinc die cast body
- Internal valve stainless steel plunger
- Press the plunger to release air flow, release the plunger for the flow to stop, and exhaust back pressure on output side
- Air flow exhausts around the plunger
- Operating temperature 0° to 131°F(-18° to +55°C)

Dimensions:

FS-81-C2

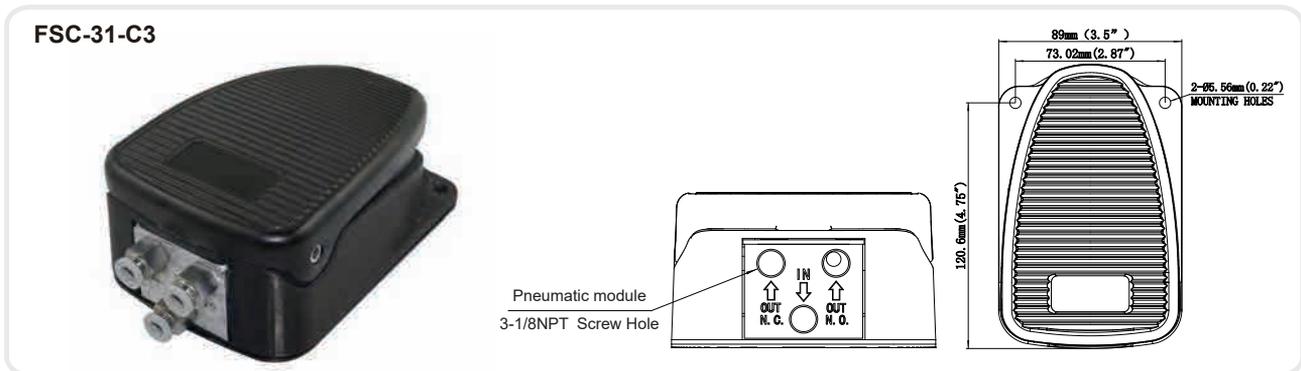
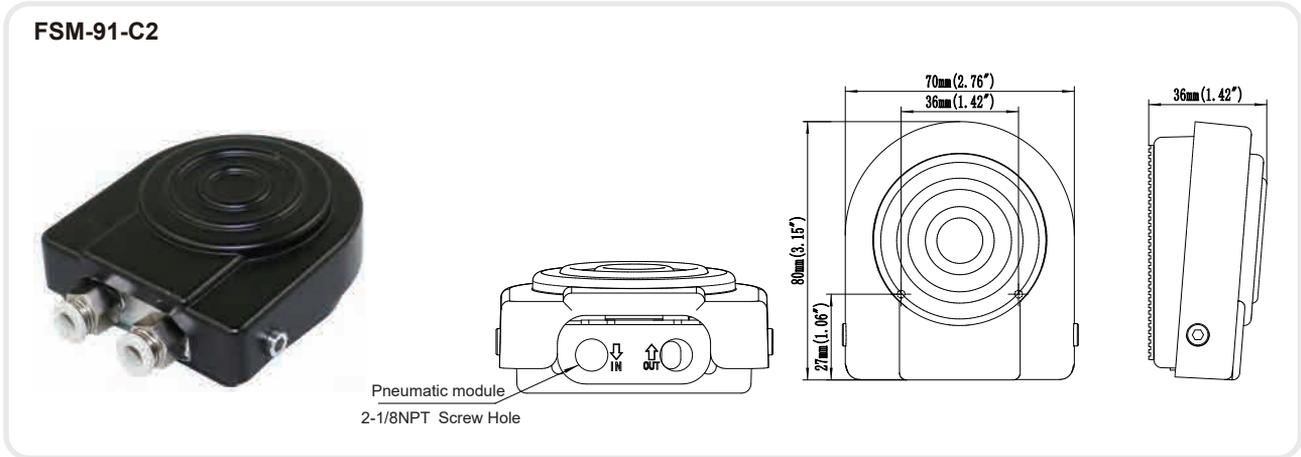


Pneumatic module
2-1/8NPT Screw hole



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

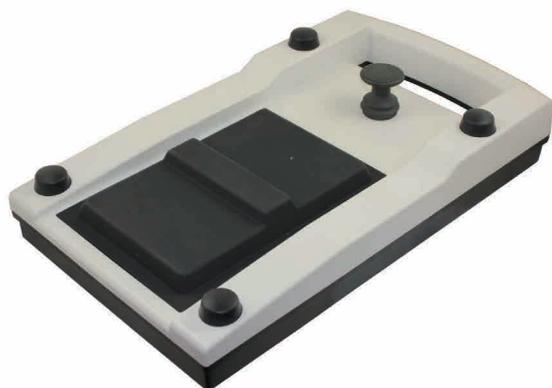
Pneumatic switch series (IPX8)



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:



Multifunctional and versatile:



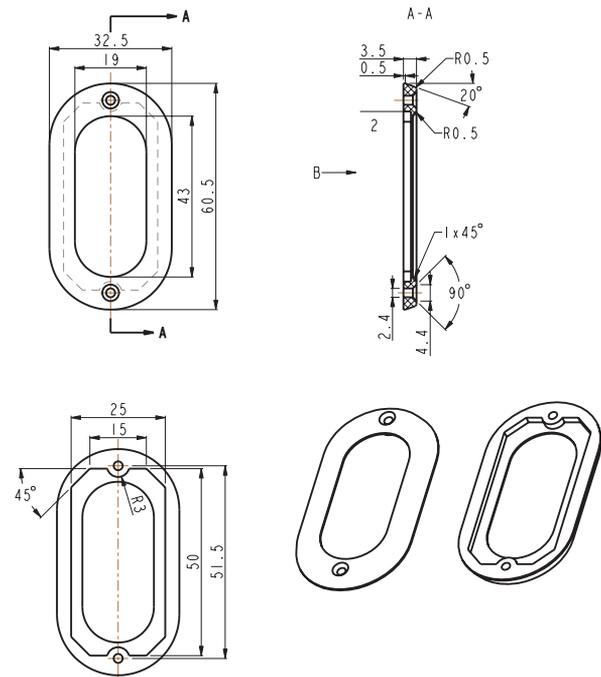
Two-Button Membrane Switches: HC-12

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

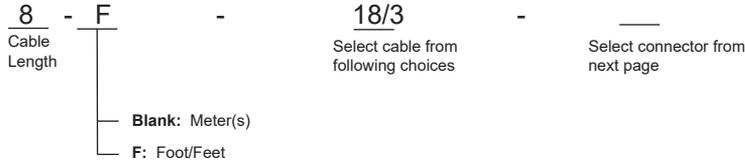


HC-12



Cables for Foot Switches

Selection Guide:



型号	导线规格	电线材料	电线外径	电线类型	电线颜色
14/3	14AWG x 3	PVC	9.3mm (0.366")	SJT	黑色
14/4	14AWG x 4	PVC	10.3mm (0.406")	SJT	黑色
16/4	16AWG x 4	PVC	9.3mm (0.366")	SJT	黑色
18/2	18AWG x 2	PVC	7.5mm (0.30")	SJT	黑色
18/3	18AWG x 3	PVC	7.8mm (0.307")	SJT	黑色
18/4	18AWG x 4	PVC	8.5mm (0.335")	SJT	黑色
20/2S	20AWG x 2	PVC (屏蔽线)	4.8mm (0.189")	AWM	黑色
20/4S	20AWG x 4	PVC (屏蔽线)	7.0mm (0.276")	AWM	PANTONE 5803
20/6S	20AWG x 6	PVC (屏蔽线)	6.7mm (0.264")	AWM	灰色
22/4S	22AWG x 4	PVC (屏蔽线)	5.3mm (0.21")	AWM	黑色
22/5S	22AWG x 5	PVC (屏蔽线)	5.6mm (0.22")	AWM	灰色
22/6S	22AWG x 6	PVC (屏蔽线)	6.0mm (0.236")	AWM	灰色
22/8	22AWG x 8	PVC	6.2mm (0.244")	AWM	黑色
22/9	22AWG x 9	PVC	7.4mm (0.291")	AWM	黑色
24/3	24AWG x 3	PVC	4.8mm (0.189")	AWM	黑色
24/6	24AWG x 6	PVC	5.0mm (0.197")	AWM	黑色
24/15S	24AWG x 15	PVC (屏蔽线)	7.0mm (0.276")	AWM	黑色
24/15S	24AWG x 15	PVC (屏蔽线)	7.0mm (0.276")	AWM	灰色
22/4S (SR)	22AWG x 4	SR (屏蔽线)	7.0mm (0.276")	AWM	黑色
26/4S (PUR)	26AWG x 4	PUR (屏蔽线)	6.5mm (0.256")	AWM	黑色
26/4S (PUR)	26AWG x 4	PUR (屏蔽线)	6.5mm (0.256")	AWM	灰色
20/6	20AWG x 6	TPU	7.0mm (0.276")	弹簧线	黑色
22/6	22AWG x 6	TPU	6.6mm (0.26")	弹簧线	黑色
23/7	23AWG x 7	TPU	6.0mm (0.236")	弹簧线	黑色
26/7	26AWG x 7	TPU	5.7mm (0.224")	弹簧线	黑色
23/8	23AWG x 8	PVC (屏蔽线)	6.1mm (0.24")	航空接头线(公)	黑色
23/8	23AWG x 8	PVC (屏蔽线)	6.1mm (0.24")	航空接头线(母)	黑色



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



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