

Foot Switches

Type A
Class 9002

Heavy Duty Industrial Foot Switches—Oiltight, Watertight, Dusttight and Driptight Enclosure, NEMA 2, 4 and 13



DANGER

HAZARDOUS APPLICATIONS

Do not use foot switches on machines without point-of-operation protection.

Failure to follow this precaution will result in serious injury.

Foot Switch Selection

Foot switches are used to control many industrial processes, while leaving the operator's hands free to perform other functions. The type or model of foot switch suitable for each application will vary depending on factors such as the control function required, degree of protection required, production methods, unusual conditions, government regulations, etc. In some applications more than one foot switch may be required, as when two or more persons are operating a machine. In these cases, safe practice and regulations require that the foot switches be wired in series making it necessary that each operator's foot switch be actuated before the machine will cycle.

Only the user can be aware of all the conditions and factors present during setup, operation and maintenance of the machine; therefore, only the user can determine which foot switch(es) can be properly used. When selecting a foot switch for a particular application, the user should refer to the applicable ANSI standards and OSHA regulations. The National Safety Council's Accident Prevention Manual also provides much useful information.

In some applications, such as power presses, additional operator protection such as point-of-operation guarding must be provided when a foot switch is used as an actuator. This is necessary since the operator's hands and other parts of the body are free to enter the pinch point area and serious injury can occur. The shielding provided on foot switches cannot protect an operator from injury. For this reason the foot switch cannot be substituted for or take the place of point-of-operation protection.

A Trilingual Danger Sign regarding the need for point-of-operation protection is supplied with each foot switch. The sign incorporates three languages: English, Spanish and French. Additional copies of the sign are available by contacting your sales office.

Type AW Fully Shielded Foot Switch with Oversized Pedal Shield, Side Shields and Safety Door. The Safety Door is interlocked with the pedal to prevent operation due to shock or vibration. It prevents accidental pedal operation by requiring a simple but intentional motion to lift the door before inserting the foot.



Type AW Foot Switch with Top Pedal Shield and Side Shields

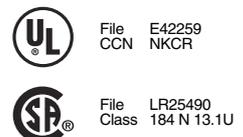
Type AW with Oversized Pedal Shield and Side Shields

Type AW Foot Switch without Pedal Shield

Description	Features	Fully Shielded with Oversized Pedal Shield, Side Shields and Safety Door		With Oversized Pedal Shield and Side Shields		With Pedal Shield and Side Shields		UNSHIELDED (See warning note ▼)	
		Type	Price	Type	Price	Type	Price	Type	Price
Single Pole ■ Double Throw	Spring Return With Mechanical Latch	AW117 ...	...	AW132 ...	...	AW2 AW7		AW1...	...
Two Pole ■ Double Throw	Spring Return With Mechanical Latch	AW124▲ ...	...	AW133 ...	...	AW14 AW15		AW13...	...
Two Stage ■ (One Pole Each Stage) Table 1	Spring Return With Mechanical Latch in 1st Stage With Mechanical Latch in 2nd Stage	AW119 ...	...	AW134 ...	...	AW6 AW9 AW10		AW5...	...
Four Stage ■ (One Pole Each Stage) Table 2	Spring Return	AW123		...	...	AW22		AW21	
Single Pole Single Throw	Maintained Contact—Push On/Push Off	...	...	...	...	AW12		AW11	
Replacement Cover Assembly	...	AC5		AC7		AC8★		AC1	

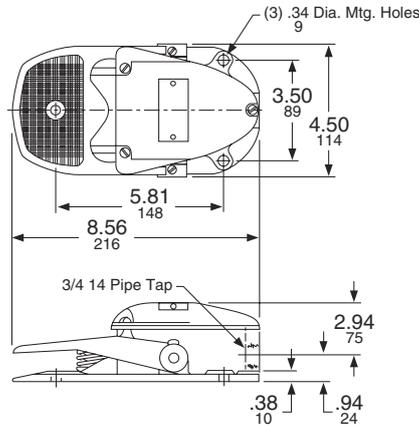
- ▲ 2 N.O. and 2 N.C. isolated, direct acting contacts.
- A single pole snap switch that contains two double break contact elements (1 N.O. and 1 N.C.) must be used on circuits of same polarity. A double pole snap switch contains two electrically separated sets of contact elements allowing use on circuits of opposite polarity. Each set that contains two double break contact elements (1 N.O. and 1 N.C.) must be used on circuits of same polarity.
- ◆ In NEMA 1, General Purpose Enclosure. See Table 3 on page 17-121 for contact symbol.
- ★ For replacement cover drilled to accept latch. For Series C foot switches order AC9. Price is \$182. No replacement cover available for Series A or B devices drilled to accept latch.
- ▼ WARNING: These foot switches must not be used to operate machines or equipment where the possibility of operator injury exists. Typical uses include Emergency Stop functions, "Dead Man" controls, signal functions (lights, bells, etc.).

Replacement Parts:
For Class 9002 Type AW:
See Bulletin No.
6501301031H

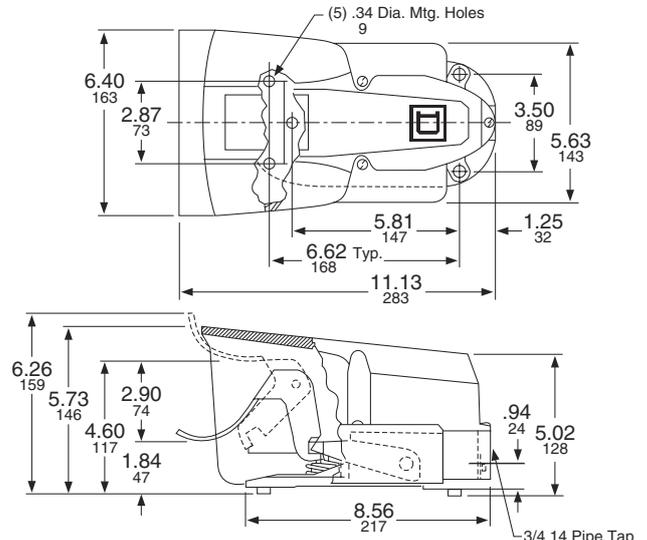


Foot Switches—Class 9002 Type A Dimensions

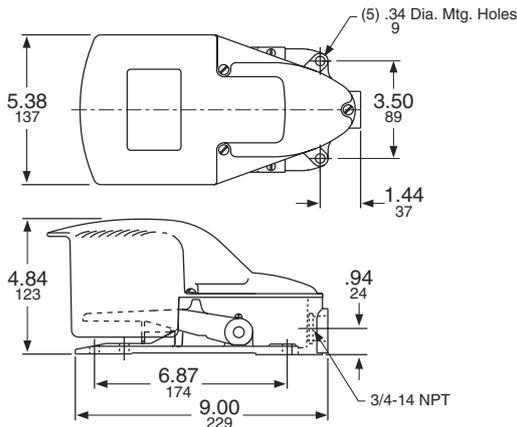
Approximate Dimensions



Types AW1, AW5, AW11, AW13 and AW21



Types AW117, AW119, AW123, AW124
Types AW132, AW133 and AW134 (without safety door)



Types AW2, AW6, AW12, AW14 and AW22

Dual Dimensions: **INCHES**
Millimeters

Maximum Current Ratings For Control Circuit Contacts

Type	Volts	AC Amperes			Volts	DC Amperes		
		Inductive 35% Power Factor		Resistive 75% Power Factor		Inductive and Resistive		Con- tinuous
		Make	Break			Make, Break and Continuous	Make and Break	
				Single Throw			Double Throw	
AW1 through AW10, AW117, AW119, AW132	120	40	15	15	125	2.0	0.5	15
	240	20	10	10	250	0.5	0.2	15
	480	10	6	6	600	0.1	0.02	15
	600	8	5	5				
AW13, AW14, AW15, AW133	120	30	3	3	125	1.0	0.2	10
	240	15	1.5	1.5	250	0.3	0.1	10
	480	7.5	0.75	0.75	600	0.1	...	10
	600	6	0.6	0.6	...	...	...	...
AW11, AW12	115	36	6	...	125	2.2	...	...
	230	18	3	...	250	1.1	...	...
AW21, AW22, AW123	120	15.0	1.5	10	...	...	...	...
	240	7.5	0.75	10	...	...	...	...
	480	3.75	0.375	10	...	...	...	...
	600	3.0	0.3	10	...	...	...	...
AW124	120	60	6	10	120	1.1	...	10
	240	30	3	10	240	0.55	...	10
	480	15	1.5	10	600	0.2	...	10
	600	12	1.2	10				

Note: Double throw switches are rated 250 Vdc maximum.

TABLE 1
Contact Symbol—Two Stage

Snap Switch		Pedal		
Unit	Circuit	Up	Half Down	Full Down
1	A1	0	1	1
	B1	1	0	0
2	A2	1	1	0
	B2	0	0	1

0 = Open 1 = Closed

TABLE 2
Contact Symbol—Four Stage

Snap Switch		Pedal Position			
Unit	Circuit	Up → Down			
1	1A1	0	0	1	1
	1B1	1	1	0	0
	2A1	0	1	1	1
	2B1	1	0	0	0
2	1A2	1	1	1	0
	1B2	0	0	0	1
	2A2	1	1	1	0
	2B2	0	0	0	1