

# Foot Switches

- PLC Overview
- DL05/06 PLC
- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
- C-more HMIs
- Other HMI
- AC Drives
- Motors
- Steppers/Servos
- Motor Controls
- Proximity Sensors
- Photo Sensors
- Limit Switches
- Encoders
- Pushbuttons/Lights
- Process
- Relays/Timers
- Comm.
- TB's & Wiring
- Power
- Enclosures
- Appendix
- Part Index



**APS1211-V0**



**APD1231-V0**



**APS1151-V0**

## Applications

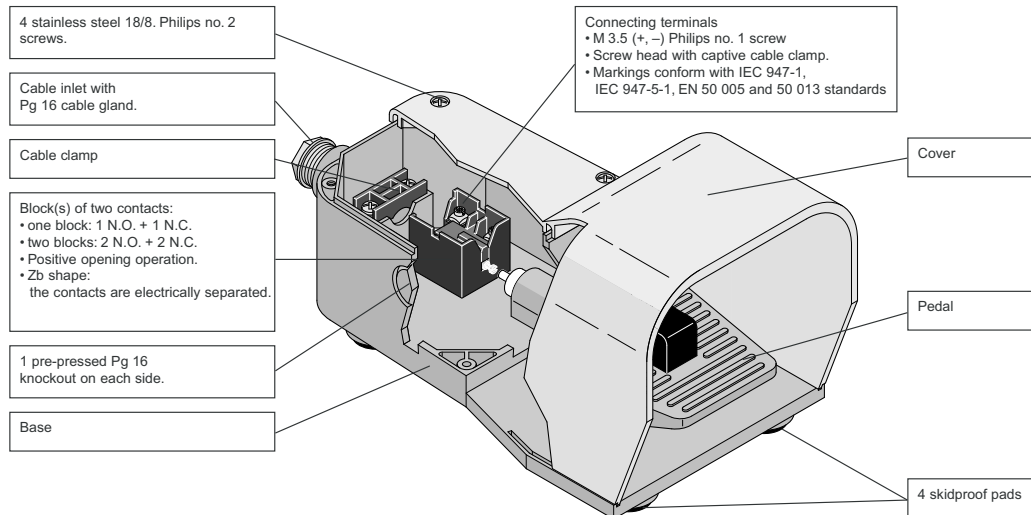
Choose these switches for foot switch-operated machines such as shearing machines, spinning machines, spinning lathes, machine tools, wrapping machines, riveting machines, riveting presses, etc.

AutomationDirect stocks foot switches in these operational formats:

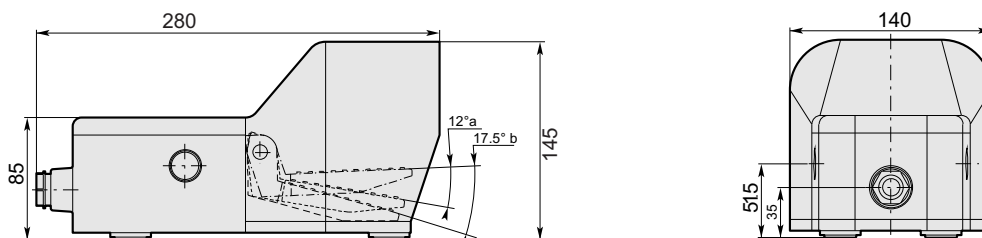
- **Free movement:** contact position follows pedal movement; actuated when the pedal is pushed down, released when pedal is in state of rest.
- **Foot switch locked in neutral position:** same operation as above, after unlocking the pedal with the foot.

## Description

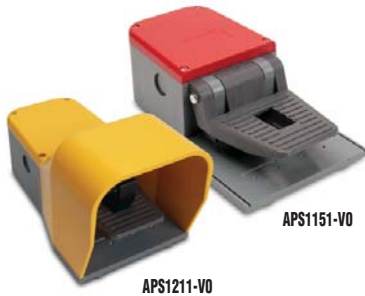
- **Dimensions:** 11.02" x 5.5" x 5.7" (280 x 140 x 145mm)
- **Materials:** base, cover and pedal of shock-resistant ABS material
- **Colors:** Single unit: gray base, yellow cover, or, gray base, half-red cover  
Double unit: one gray base with gray cover, and one gray base with yellow cover



## Dimensions (mm)



# Foot Switches Technical Specifications



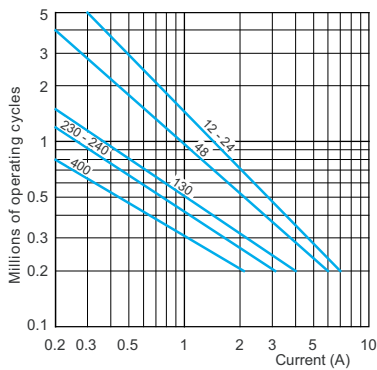
Foot Switch Selection		
Part Number	Color	Description
APS1211-V0	Yellow	Foot Switch, snap action contacts, single, ABS plastic, safety actuating lever, yellow cover, 1 N.O. and 1 N.C. contact block
APS1213-V0	Yellow	Foot Switch, snap action contacts, single, ABS plastic, safety actuating lever, yellow cover, 2 N.O. and 2 N.C. contact block
APS1151-V0	Half Red	Foot Switch, snap action contacts, single, ABS plastic, half red cover, 1 N.O. and 1 N.C. contact block
APD1231-V0	Yellow/Gray	Foot Switch, snap action contacts, double, ABS plastic, safety actuating lever, 1 with yellow cover and 1 with gray cover, 1 N.O. and 1 N.C. contact block for each switch

Note: See page 19-8, contact block accessories, for AGZ11-SWITCH replacement contact block (contact blocks have adjustable screw actuator).

Foot Switch General Technical Data	
<b>Standards</b>	IEC 947-5-1
<b>Certifications - Approvals</b>	UL/CUL file E191072, CE
<b>Temperature</b>	<b>Operating (ambient) air temperature:</b> - 10 to + 70°C (14°F to 158°F) <b>Storage (non-operating) air temperature:</b> - 30 to + 80°C (-22°F - 176°F)
<b>Environmental</b>	according to IEC 68-2-3 and salty mist according to IEC 68-2-11
<b>Shock</b> (according to IEC 68-2-27 and EN 60 068-2-27)	50g (1/2 sinusoidal shock for 11 ms) no change in contact position
<b>Degree of Protection</b> (according to IEC 529 and EN 60 529)	IP 65
<b>Operating Torque</b>	0.25 N.m
<b>Operating Angle</b>	15 Degree
<b>Cable Inlet</b>	Pg 16 knockout

Foot Switch Electrical Data	
<b>Rated Insulation voltage <math>U_i</math></b>	690 V (according to IEC 947-1 and EN 60-947-1) Degree of pollution 3
<b>Rated Impulse Withstand Voltage <math>U_{imp}</math></b>	6 kV (according to IEC 947-1 and EN 60 947-1)
<b>Conventional Free Air Thermal Current <math>I_{th}</math></b> $0 < 40\text{ }^\circ\text{C}$	10 A ( according to IEC 947-1)
<b>Short-circuit Protection</b> $U_g < 500\text{ V AC}$ , - gG (gl) type fuses	10 A
<b>Rated Operational Current</b>	A 600 (according to UL 508 and CSA C22-2 n° 14) Q 600 (according to UL 508 and CSA C22-2 n° 14)
AC-15 (according to IEC 947-5-1) . . . . . 24V	10 A
. . . . . 120V	6 A
. . . . . 230V	3.1 A
. . . . . 240V	3 A
. . . . . 400V	1.8 A
DC-13 (according to IEC 947-5-1) . . . . . 24V	2.8 A
. . . . . 125V	0.55 A
. . . . . 250V	0.27 A
<b>Resistance Between Contacts</b>	25 mΩ
<b>Connecting Terminals</b>	M3.5 (±) Philips head #1 with cable clamp
<b>Positive Opening Operation</b> (according to IEC 947-5-1)	⊖
<b>Connecting Capacity</b>	(1 or 2 x mm <sup>2</sup> ) 0.75 to 2.5
<b>Terminal Marking</b>	According to EN 50 013
<b>Life Expectancy</b>	<b>Mechanical:</b> 30 million operations <b>Electrical Operations:</b> Utilization categories AC-15 and DC-13 (Load factor of 0.5 according to curves)

### AC-15 - Snap Action



DC-13	Snap Action
Power breaking for a durability of 5 million operating cycles	
Voltage 24 V	9.5 W
Voltage 48 V	6.8 W
Voltage 110 V	3.6 W