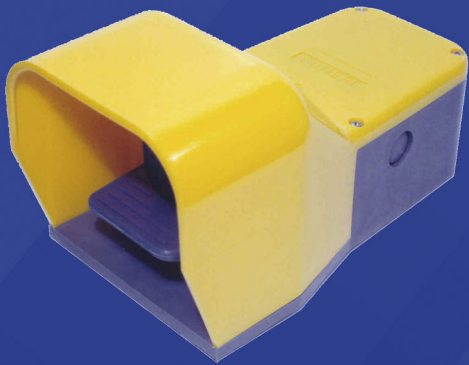




# ELECTRICAL COMPONENTS

## Foot Switches & Accessories



- Single & Multi-Pedal Foot Switches
- Metal & Plastic
- Simple Action
- Bi-stable / Two Stage / Safety
- Miniature Foot Switches
- Accessories

## F series Foot Switches

ITC presents a complete line of foot switches from Bernstein, designed to respond to the most stringent requirements for machine control and safety applications.

The F series includes simple action switches, models with a safety blocking device, bi-stable (push-push), two-stage, analog output, in 1, 2 or 3 pedal configuration.

F series foot switches can be optioned with a fixed or hinged guard, and E-stops for manual reset. Special models include Hazardous Locations rated switches etc....



### Features and specifications:

- **Materials - Body and Guard:** heavy duty die-cast aluminum
- **Materials - Pedal:** Polyamide
- **Guard:** protection from falling objects - 20kg from a height of 1m - top and sides
- **Colour:** Standard colour is red/black. Other colours are available upon request.
- **Approvals:** CSA, cCSAus

### F Foot Switches - Technical Information

Mechanical Characteristics	
Ambient temperature	-30 to 80° C
Storage temperature	-30 to 80° C
Mechanical life (number of operations)	>1 x 10 <sup>6</sup>
Switching frequency	50/minute
Connection type	Screw connection $\Phi$ 3.5mm
Conductor size (solid wire)	0.5-1.5 mm <sup>2</sup> * (20-16AWG)
Cable entry gland	M20x1.5
IP rating	Standard is IP65. IP67 protection is available on most single and two pedal versions.
Weight without guard	1 sw-0.6 kg / 2sw-1.7kg / 3sw-3.0 kg
Weight with guard	1 sw-1.5 kg / 2sw-2.6kg / 3sw-5.4 kg
Material - enclosure and guard	Die-cast aluminum, powder-coated
Material - pedal	Thermoplastic

\* For stranded wire, use of a ferrule is recommended  
Information subject to change without notice

Electrical Characteristics	
Rated voltage/current (CSA)	300VAC 25A - 2HP or 250VAC 20A - 1HP (as indicated in tables)
Rated impulse withstand	4 kV
Rated thermal current (IEC)	10A
Class of utilization	AC-15 (240V / 3A)
Contact type	Positive opening (IEC 60947-5-1)
Protection class	I
Certification	CSA 018950

Note: The information above is generic to the standard foot switch line  
Please refer to individual technical data sheets for exact product information  
Information subject to change without notice

## Simple Action Foot Switches

Simple action foot switches feature spring return operation.

- Single, double or triple-switch versions available
- Slow-action or snap-action contacts available
- **Contacts:** 1NO+1NC or 2NO+2NC per pedal



### Simple-Action Foot Switches (Order by Part No.)

Part No.	Model	Description	Guard	Contacts (each pedal)
BE606.1300.011	F1-SU1Z	Single switch, spring return	No	1NO+1NC snap
BE606.1400.061	F1-SU2Z	Single switch, spring return	No	2NO+2NC snap
BE606.1100.005	F1-U1Z	Single switch, spring return	No	1NO+1NC slow
BE606.1200.003	F1-U2Z	Single switch, spring return	No	2NO+2NC slow
BE606.2330.021	F2-SU1Z/SU1Z	Double switch, spring return	No	1NO+1NC snap
BE606.2440.065	F2-SU2Z/SU2Z	Double switch, spring return	No	2NO+2NC snap
BE606.2110.013	F2-U1Z/U1Z	Double switch, spring return	No	1NO+1NC slow
BE606.2220.015	F2-U2Z/U2Z	Double switch, spring return	No	2NO+2NC slow
BE613.3444.577	F3-SU2Z/SU2Z/SU2Z	Triple switch, spring return	No	2NO+2NC snap
BE606.3111.025	F3-U1Z/U1Z/U1Z	Triple switch, spring return	No	1NO+1NC slow
BE606.1800.012	F1-SU1Z UN	Single switch, spring return with guard	Yes	1NO+1NC snap
BE606.1900.062	F1-SU2Z UN	Single switch, spring return with guard	Yes	2NO+2NC snap
BE606.1600.006	F1-U1Z UN	Single switch, spring return with guard	Yes	1NO+1NC slow
BE616.1600.538	F1-U1Z-UN-IP67	Single switch, spring return with guard (IP67)	Yes	1NO+1NC slow
BE606.1700.004	F1-U2Z UN	Single switch, spring return with guard	Yes	2NO+2NC slow
BE606.2830.022	F2-SU1Z/SU1Z UN	Double switch, spring return with guard	Yes	1NO+1NC snap
BE606.2940.066	F2-SU2Z/SU2Z UN	Double switch, spring return with guard	Yes	2NO+2NC snap
BE606.2610.014	F2-U1Z/U1Z UN	Double switch, spring return with guard	Yes	1NO+1NC slow
BE606.2720.016	F2-U2Z/U2Z UN	Double switch, spring return with guard	Yes	2NO+2NC slow
BE616.3444.577	F3-SU2Z/SU2Z/SU2Z UN	Triple switch, spring return with guard	Yes	2NO+2NC snap
BE606.3611.026	F3-U1Z/U1Z/U1Z UN	Triple switch, spring return with guard	Yes	1NO+1NC slow

Information subject to change without notice

## Analog Output Foot Switches

Analog foot switches have a variable controlled current and voltage output that is directly proportional to the pedal position. A programmable signaling output is additionally activated when a predetermined pedal position is reached.

- The analog output can be delivered in a 0-5V, 0-10V, 0-20mA or 4-20mA
- These foot switches are available in single pedal versions; 2 and 3 pedal versions are also available on request
- The Analog Output switches **do not have CSA approval**

### Foot Switches with Analog Output (Order by Part No.)

Part No.	Model	Description	Guard	Output
BE616.1500.723	F1-AU0-5	Single foot switch, 0-5 V DC analog output	No	0-5 V DC
BE616.1500.724	F1-AU0-10	Single foot switch, 0-10 V DC analog output	No	0-10 V DC
BE616.1500.725	F1-AI0-20	Single foot switch, 0-20 mA analog output	No	0-20 mA
BE616.1500.726	F1-AI4-20	Single foot switch, 4-20 mA analog output	No	4-20 mA
BE616.1000.727	F1-AU0-5 UN	Single foot switch, 0-5 V DC analog output	Yes	0-5 V DC
BE616.1000.728	F1-AU0-10 UN	Single foot switch, 0-10 V DC analog output	Yes	0-10 V DC
BE616.1000.729	F1-AI0-20 UN	Single foot switch, 0-20 mA analog output	Yes	0-20 mA
BE616.1000.730	F1-AI4-20 UN	Single foot switch, 4-20 mA analog output	Yes	4-20 mA

Information subject to change without notice

## Bi-stable (push-push) Foot Switches

When the pedal is operated, the contacts are actuated and maintained until the pedal is pressed a second time.

- Single or double-switch versions available
- Slow-action or snap-action contacts available
- Contacts: 1NO+1NC or 2NO+2NC per foot switch
- Bi-stable switches are identified by the letter “Y” (see table below)



### Bi-stable Foot Switches (Order by Part No.)

Part No.	Model	Description	Guard	Contact Configuration (each pedal)
BE616.1800.247	F1-SU1Y UN	Bi-stable (push-push) switch, with guard	Yes	1NO+1NC snap
BE616.1000.676	F1-A2Y	Bi-stable (push-push) switch	No	2NC slow
BE606.1100.001	F1-U1Y	Bi-stable (push-push) switch	No	1NO+1NC slow
BE616.1600.295	F1-U1Y UN	Bi-stable (push-push) switch, with guard	Yes	1NO+1NC slow
BE616.2840.655	F2-SU1Y/SU2Z UN	Double switch, bi-stable / spring	Yes	L:1NO+1NC snap bi-stable/ R:2NO+2NC snap spring
BE606.2610.018	F2-U1Y/U1Y UN	Double bi-stable switch	Yes	L and R: 1NO+1NC slow each
BE606.2610.047	F2-U1Y/U1Z UN	Double switch bi-stable / spring	No	L:1NO+1NC slow bi-stable / R:1NO+1NC slow spring

Information subject to change without notice; L=left pedal / R: right pedal

## Two-stage Foot Switches

Two-stage foot switches are designed so that the first part of the pedal travel actuates the first contact. The pedal then reaches a point where further pressure is required in order to activate the second contact. The force of the pressure point can be adjusted upon request.

- Single, double or triple-switch versions available
- Slow-action or snap-action contacts available
- Two-stage foot switches are identified by the letter “D” (see table below)
- **Pressure Point setting: 200N (Newtons)**



### Two-stage Foot Switches (Order by Part No.)

Part No.	Model	Description	Guard	Contact Configuration (each pedal)
BE606.1200.007	F1-U2ZD	Single two stage switch	No	2NO+2NC slow 2-stage
BE606.1700.008	F1-U2ZD UN	Single two stage switch	Yes	2NO+2NC slow 2-stage
BE606.2620.086	F2-U1Z/U2ZD UN	Double switch spring return / two stage	Yes	L:1NO+1NC slow spring / R:2NO+2NC slow 2-stage
BE616.2000.418	F2-SU1Z/SU2ZD UN	Double switch spring return / two stage	Yes	L:1NO+1NC snap spring / R:2NO+2NC snap 2-stage
BE606.2220.019	F2-U2ZD/U2ZD	Double 2-stage switch	No	L & R: 2NO+2NC slow 2-stage
BE606.2720.020	F2-U2ZD/U2ZD UN	Double 2-stage switch	Yes	L & R: 2NO+2NC slow 2-stage
BE606.3612.423	F3-U1Z/U1Z/U2ZD UN	Triple switch spring/spring/2-stage	Yes	L:1NO+1NC slow spring/ C: 1NO+1NC slow spring/ R:2NO+2NC snap 2-stage

Information subject to change without notice; L=left pedal / C=centre pedal / R: right pedal

### Enable three position Foot Switches (operator presence detection)

Enable 3 position foot switches are often used as so-called ‘hold-to-run control device’ to bring a machine into operation. These are referred to as ‘Dead-man’s switches’.

For this purpose, the enable foot switches equipped with an intermediate pressure point. When operated to the “pressure point”, the 2 “enable” contacts are closed. If the pedal is released, the same contacts are opened. If the pedal is pressed beyond the “pressure point”, the same contacts are also opened. An additional alarm contact is closed when the pedal returns to the “zero” position. The optional reset button requires the operator to perform a positive action once the protection device has taken effect.



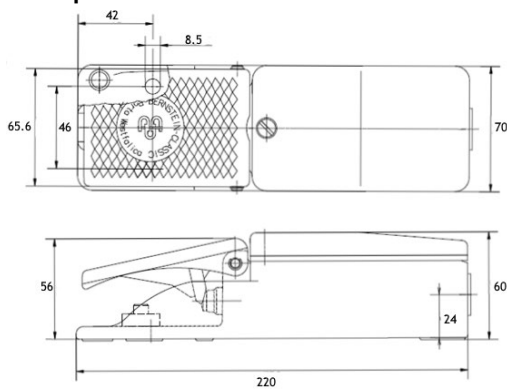
- Single or double switch; available with reset button and guard
- Enable foot switches are identified by the letters “ZSD” (see table below)
- **Pressure Point: 200N**
- **Rated Current: 5A**
- **IP Rating: IP67**
- **Approvals: cULus; DGUV**

### Hold-to-Run Foot Switches (Order by Part No.)

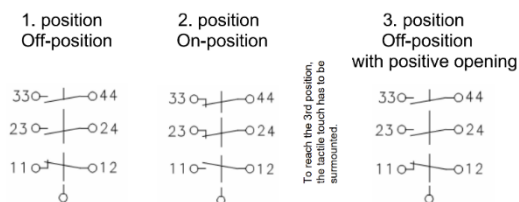
Part No.	Model	Description	Guard	Contact Config. (each pedal)
BE606.1500.559	F1-ZSD	Pressure Point D	-	1NC+2NO
BE606.1000.558	F1-ZSD UN	Pressure Point D	Yes	1NC+2NO
BE606.1500.567	F1-ZSDR	Pressure Point D, Reset	-	1NC+2NO
BE606.1000.560	F1-ZSDR UN	Pressure Point D, Reset	Yes	1NC+2NO
BE606.2500.561	F2-U1Z/ZSD	Double switch; Pressure Point D	-	L: 1NC+2NO R: 1NC+2NO “D”
BE606.2000.563	F2-U1Z/ZSD UN	Double switch; Pressure Point D	Yes	L: 1NC+2NO R: 1NC+2NO “D”
BE606.2500.567	F2-ZSDR/ZSDR	Double switch; Pressure Point D; Reset	-	L & R: 1NC+2NO “D”

Information subject to change without notice; L=left pedal / R: right pedal

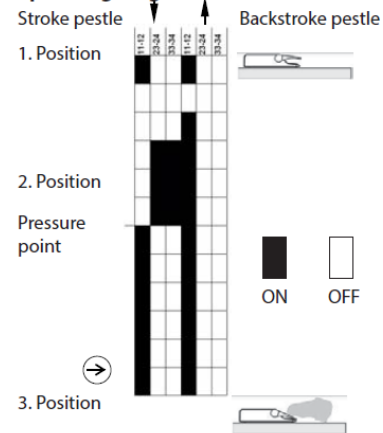
### Example: F2-ZSDR/ZSDR



Switching symbol  
(Three-Step-Safety Switch)



### Operating diagramme



### Accessories for F Series Foot Switches (Order by Part No.)

Part No.	Model	Description	Details
BE390.6010.719	F1-UN	Replacement guard for single F1 foot switches	die-cast aluminum - red
BE390.6020.720	F2-UN	Replacement guard for double F2 foot switches	die-cast aluminum - red
BE390.6030.721	F3-UN	Replacement guard for triple F3 foot switches	die-cast aluminum - red
BE399.6000.229	F1-TV	Plate with 642mm handle for single F1 foot switches	Base + 642mm rod
BE399.6000.230	F2-TV	Plate with 615mm handle for double F2 foot switches	Base + 615mm rod
BE391.6001.320	F-ST-EINS. 25N	Replacement plunger for F foot switches	
BE600.6101.036	FS-101	Replacement contact for F foot switches	1NO+1NC slow
BE600.6101.060	FS-101B-S	Replacement contact for F foot switches	1NO+1NC slow; bistable
BE600.6351.039	FS-101SN	Replacement contact for F foot switches	1NO+1NC snap
BE600.6101.044	FS-202	Replacement contact for F foot switches	2NO+2NC slow
BE600.6451.040	FS-202SN	Replacement contact for F foot switches	2NO+2NC snap
BE391.6001.254		Replacement pressure point for F foot switches	Force: 200N

Information subject to change without notice

### Other F series Foot Switches available

Other models of F series Foot Switches available at ITC include:

- Foot Switches with Footrest 'FS'
- Foot Switches with Pedal lock 'AT'
- Foot Switches with hinged pedal protection 'PS'
- Foot Switches with Emergency Stop button 'NA2'
- Foot Switches with safety lock and reset 'UV'
- Foot Switches with power control 'LS'
- Foot Switches for clean environments 'MF'



Foot switches with TV handles

Please inquire with ITC.



Pedal Lock 'AT'



Emergency Stop 'NA2'



Footrest 'FS'



Clean Environments 'MF'



Hinged Pedal Protection 'PS'

## Pneumatic Foot Switches

ITC also offers two models of pneumatic foot switches, for use in several applications such as control of bench-mount wire processing units, crimp tools, presses and test systems. No lubrication required. Use of an air filter is recommended.

### Pneumatic Foot Switch E25

This heavy-duty pneumatic foot valve features a die-cast aluminum valve/lever and a pedal made of nylon with reinforcing steel plate. The guard is made of impact-resistant plastic; body in aluminum alloy.

### Pneumatic Foot Switch 4F

A compact, economical foot valve equipped with a robust, shock-resistant plastic guard. Body in aluminum alloy.

### Pneumatic Foot Switches - Technical Information

Mechanical Characteristics	E25	4F
Ambient temperature	-10 to 70 °C	-20 to 70 °C
Fluid temperature (air)	-10 to 50 °C	5 to 60 °C
Type of function (positions)	3/2 NC, spring return	5/2, spring return
Operating pressure	50-100 PSI; Max 145 PSI / 10 bar	72-100 PSI; Max: 145 PSI
Connection type	G1/4	G1/4
Nominal connector diameter $\Phi$	8mm	8mm

Information subject to change without notice

### Pneumatic Foot Switches and Accessories (Order by Part No.)

Part No.	Description	Valve Body	Valve/Lever	Guard
500.905	E25 pneumatic foot switch 3/2NC - without hose	Aluminum alloy	Die-cast aluminum	Plastic - orange
500.909	E25 pneumatic foot switch 3/2NC - with coiled hose	Aluminum alloy	Die-cast aluminum	Plastic - orange
500.931	4F pneumatic foot switch - without hose	Aluminum alloy	Aluminum alloy	Plastic - yellow
500.906	Silencer for pneumatic switch; G1/4 connection	-	-	-
500.934	Coiled hose 8mm	-	-	-
500.935	Quick-connector 1/4G to 8mm hose	-	-	-

Information subject to change without notice



E25 - 500.905



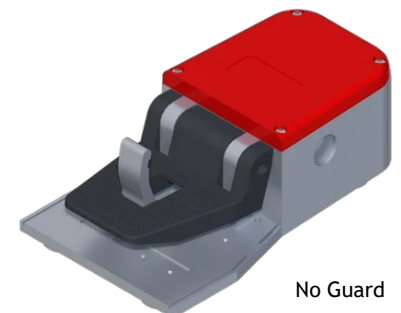
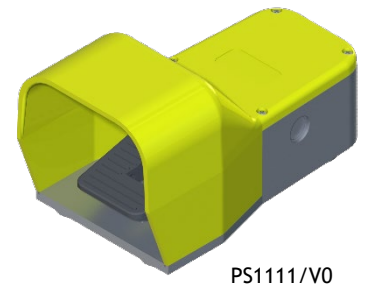
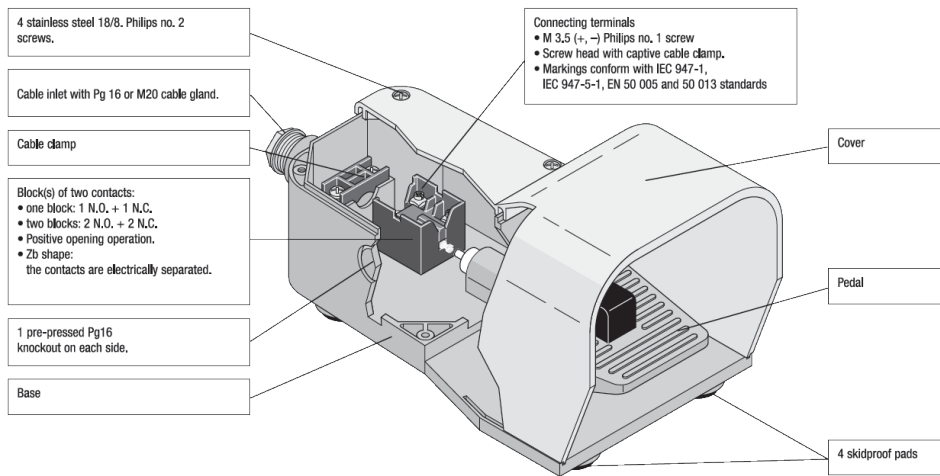
4F - 500.931

# Insulated-Base PS Series

This series features a light-weight, shock-resistant insulated ABS base (UL94 V0), with optional ABS or die-cast aluminium guard.

## Features and specifications:

- Single or double-switch versions available
- Contacts: 1NO+1NC or 2NO+2NC per foot switch
- Spring return operation, spring return with anti-trip safety latch, and push/push operation available
- Mounting kits for 2, 3 4 or 5 foot switches available
- Approvals: CSA, UL



## Insulated-base PS/PD Foot Switches - Technical Information

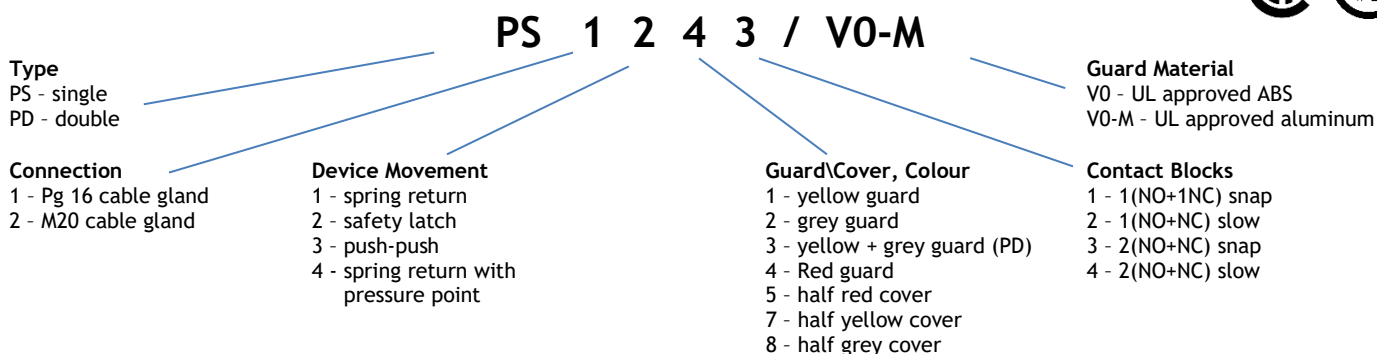
Mechanical Characteristics	
Ambient temperature	-10 to 70° C
Storage temperature	-30 to 80° C
Mechanical life (number of operations)	30x10 <sup>6</sup>
Connection type	Screw conn. Φ 3.5mm - captive wire clamp
Conductor size (solid wire)	0.75-2.5 mm <sup>2</sup> (18-14AWG)*
Cable entry gland	Pg16 - Internal strain relief provided
Ingress protection	IP65
Material - base	ABS UL94V0

\* For stranded wire, use of a ferrule is recommended;  
 Information subject to change without notice

Electrical Characteristics	
Rated voltage /current (CSA)	300VAC 25A
Rated impulse withstand	6 kV
Class of utilization	AC-15 (240V / 3A) - DC-13
Contact type	Positive opening (IEC 60947-5-1)
Certification	CSA 066746 - UL E189258

Note: The information above is generic to the standard foot switch line  
 Please refer to individual technical data sheets for exact product information  
 Information subject to change without notice

## Naming Convention for Comepi Foot Switches



Any combination of the above can be ordered; half covers (5, 7 & 8) cannot have guards.

## Part Numbers of Some of Our More Popular PS/PD Foot Switches (Order by Part No.)

Part No.	Description	Guard\Cover Colour	Contact (each pedal)
PS1111/V0	Insulated base single switch, spring return	Yellow	1NO+1NC snap
PS1111/V0-M	Insulated base single switch, spring return	Yellow (Aluminium)	1NO+1NC snap
PS1112/V0	Insulated base single switch, spring return	Yellow	1NO+1NC slow
PS1113/V0	Insulated base single switch, spring return	Yellow	2NO+2NC snap
PS1113/V0-M	Insulated base single switch, spring return	Yellow (Aluminium)	2NO+2NC snap
PS1114/V0	Insulated base single switch, spring return	Yellow	2NO+2NC slow
PS1143/V0	Insulated base single switch, spring return	Red	2NO+2NC snap
PS1144/V0	Insulated base single switch, spring return	Red	2NO+2NC slow
PS1151/V0	Insulated base single switch, spring return	Red (half cover)	1NO+1NC snap
PS1152/V0	Insulated base single switch, spring return	Red (half cover)	1NO+1NC slow
PS1153/V0	Insulated base single switch, spring return	Red (half cover)	2NO+2NC snap
PS1154/V0	Insulated base single switch, spring return (no guard)	Red (half cover)	2NO+2NC slow
PS1211/V0	Insulated base single switch, safety latch	Yellow	1NO+1NC snap
PS1212/V0	Insulated base single switch, safety latch	Yellow	1NO+1NC slow
PS1213/V0	Insulated base single switch, safety latch	Yellow	2NO+2NC snap
PS1214/V0	Insulated base single switch, safety latch	Yellow	2NO+2NC slow
PS1214/V0-M	Insulated base single switch, safety latch	Yellow (Aluminium)	2NO+2NC slow
PS1311/V0	Insulated base single switch, push-push	Yellow	1NO+1NC snap
PS1313/V0	Insulated base single switch, push-push	Yellow	2NO+2NC snap
PS1313/V0-M	Insulated base single switch, push-push	Yellow (Aluminium)	2NO+2NC snap
PD1111/V0	Insulated base double foot switch, spring return x2, carrying rod	Yellow	1NO+1NC snap
PD1131/V0	Insulated base double foot switch, spring return x2, carrying rod	Yellow + Grey	1NO+1NC snap
PD1132/V0	Insulated base double foot switch, spring return x2, carrying rod	Yellow + Grey	1NO+1NC slow
PD1114/V0	Insulated base double foot switch, spring return x2, carrying rod	Yellow	2NO + 2NC, slow
PD1133/V0	Insulated base double foot switch, spring return x2, carrying rod	Yellow + Grey	2NO+2NC snap
PD1134/V0	Insulated base double foot switch, spring return x2, carrying rod	Yellow + Grey	2NO+2NC slow
PD1313/V0	Insulated base double switch, spring return x2, carrying rod	Yellow	2NO+2NC snap

Information subject to change without notice

## Accessories for PS/PD Foot Switches (Order by Part No.)

Part No.	Description	Details
PS1-PY	Replacement plastic (ABS) guard	Yellow
PS4-PY	Replacement plastic (ABS) guard	Red
PS4-PY H	Replacement plastic (ABS) guard	Grey
PS1-M	Replacement aluminum guard	Yellow
PS4-M	Replacement aluminum guard	Red
PS4-MG	Replacement aluminum guard	Grey
R11	Replacement contact for PS foot switches	1NO+1NC snap
S11	Replacement contact for PS foot switches	1NO+1NC slow
PD1000	Carrying rod kit for 2 foot switches	Base + rod
PD1001	Carrying rod kit for 3 foot switches	Base + rod
PD1002	Carrying rod kit for 4 foot switches	Base + rod

Information subject to change without notice

## Sub-compact PCFS Foot Switches

These extremely compact PCFS miniature foot switches are certified by cULus for operation at 125-250VAC. Operation is momentary (spring return).

### Features and specifications:

- **Materials:** Solid steel construction, with full guard and base pads
- **Dimensions** (without guard): 90x70x27mm; 3.5x2.75x1.1"
- **Contacts:** 1NO; snap-action
- **Grounding:** #8 grounding screw (provided)
- **Approvals:** cULus
- Redundant corrosion-resistant spring system
- Optional guards, oversize guards and stainless-steel guards available



### Insulated-base PS/PD Foot Switches - Technical Information

General Characteristics	
Connection type	Quick-connect terminals
Cable size	18-14AWG
Cable entry	Internal cable clamp
Ingress protection	NEMA Type 1
Material	Steel

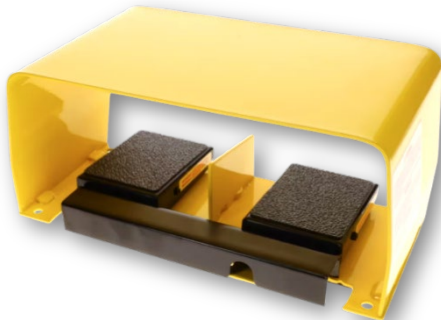
Information subject to change without notice



### PCFS Sub-compact Foot Switches (Order by Part No.)

Part No.	Description	Rated Current	Rated HP	Rated Voltage	Contact
PCFS-3M	Sub-compact metal foot switch, momentary, 1NO	15A	1/2	125-250VAC	1NO snap
PCFS-3MC	Sub-compact metal foot switch, momentary, 1NO w/6' 18/3 cable	10A	1/3	125-250VAC	1NO snap
PCFS-3MG	Sub-compact metal foot switch, momentary, 1NO w/steel guard	15A	1/2	125-250VAC	1NO snap
PCFS-3-BG	Black metal guard for Sub-compact metal foot switch PCFS-3M	-	-	-	-
PCFS-3-YG-O	Metal guard; for 1 or 2 PCFS-3 series sub-compact foot switches	-	-	-	-

Information subject to change without notice



## Two-Hand Safety Control Stations

The two-hand control stand is designed with safety in mind. Its special configuration prevents operating the controlled equipment unless the operator uses both hands. Supplementary controls can be added (up to three 22.5 pushbuttons at the centre and 2 foot switches).

This device is composed of 3 different parts, to be ordered separately (Note: pushbuttons/switches/foot switches are not included):

- Stand (steel plate and tube, painted bright orange), adjustable height 700 to 1150mm. 4 holes for mounting on floor [PB-2029]
- Pushbutton panel, aluminum painted bright orange, with 2 + 3 22.5mm holes [PB-2031]
- Protection ring, steel, bright orange [PB-2003]

A standalone panel or wall mounted version is also available [PB-2030]






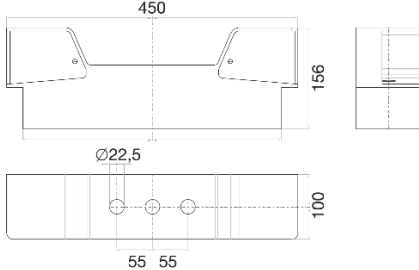
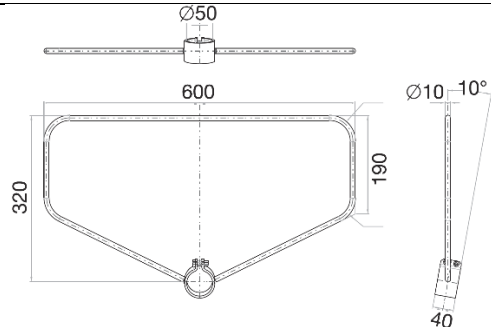
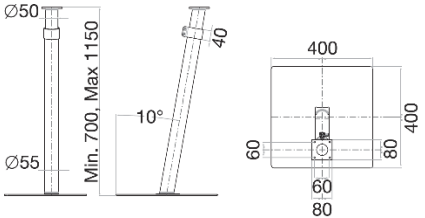
### Two-Hand Safety Control Station (Order by Part No.)

Part No.	Description	Dimensions (mm)
PB-2031	Pushbutton panel stand mounting	450 x 100 x 156
PB-2030	Pushbutton panel panel mounting	450 x 100 x 156
PB-2029	Stand	H = 700 to 1150- Base 400x400
PB-2003	Protection ring	600 x 320

Information subject to change without notice

Please refer to ITC's 22.5mm Control Devices catalog for pushbuttons.

### Dimensions (mm)

PB-2031/2030	PB-2003	PB-2029
		
		

Information subject to change without notice



# ELECTRICAL COMPONENTS

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Hinged Enclosures



Thermal Management



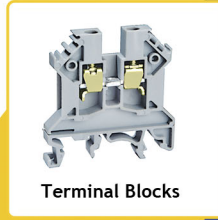
PANEL Lighting



Multipole Connectors



Compact IP68 Connectors



Terminal Blocks



Terminal Strips



Screwless Parallel Connectors



22.5mm Pushbuttons



LED Indicators



Control Stations



Limit Switches



Micro Limit Switches



Safety Switches



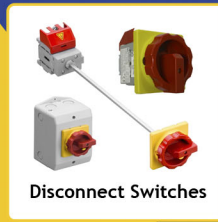
Foot Switches



Circuit Breakers



IEC Contactors



Disconnect Switches



Midget and CC Fuse Holders



Tower Lights



Power Continuity



Ferrules



Colour Coded Lugs



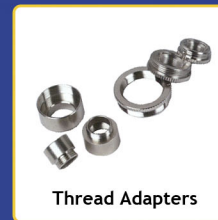
Crimp Terminals



Termination Kits



Cable Glands



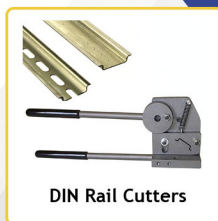
Thread Adapters



Cable Entry Systems



Wire Management



DIN Rail Cutters



Assembly Tables



Cutting & Stripping



Crimping Tools



Hole Cutting & Punching Tools

## SOME OF OUR MANUFACTURING PARTNERS

