

Footswitches PX/PA

IMO

Heavy duty footswitches with shrouded pedal to prevent accidental operation

- Large shroud to allow operators to wear industrial protective footwear
- Pedal interlock lever to prevent operation unless the operator's foot is fully inside the pedal shroud
- 10A 500VAC/600VDC rated
- Bifurcated contacts for low resistance and high reliability – suitable for switching low-level electronic currents
- Positive break of NC contacts for safety circuits in conformity with BS60947-5-1, VDE 0660 part 206 and IEC 337-1
- A second contact block can be fitted giving a total of four contacts in various combinations of NO and NC
- Unshrouded models (stop type) with red terminal cover
- Impact-resistant glass-reinforced thermoplastic housing
- Non-skid rubber feet plus floor-fixing holes if required
- Double insulated for electrical safety
- Mechanism protected against dirt and foreign matter
- Cable entry hole with PG13.5 thread
- IP65



Options and ordering codes

Footswitches:

Shrouded, snap-action 1NO + 1NC	PX 10111
Shrouded, slow-action 1NO + 1NC	PX 10311
Shrouded, latching, snap-action 1NO + 1NC	PX 10121
Unshrouded, snap-action 1NO + 1NC	PA 20101
Unshrouded, latching, slow-action 1NO + 1NC	PA 20321
Unshrouded, slow-action 2NC	PA 20701

Many other footswitch models available including double-pedal types - contact IMO for availability

Additional contact blocks if required:

1NO + 1NC snap-action	VF B501
1NO + 1NC slow-action	VF B601
2NC slow-action	VF B901
2NO slow-action	VF B1001

Specification

Rated thermal current I _{th}	10A
Rated working voltage	500VAC/600VDC
Initial contact resistance	<25 mOhms
Contact gap	>2.5mm (2 x 1.25mm conforming to VDE 0660 part 206)
Contact material	silver
Dielectric strength	2000VAC, 50/60Hz for 1 minute between open contacts 2000VAC, 50/60Hz for 1 minute between current-carrying parts and ground
Ambient operating temperature	-25 to +80 deg. C
Ambient humidity	95% r.h.
Maximum wire size	2 x 1.5mm ² flexible, 2 x 2.5mm ² solid
Conduit entry	PG13.5

Cable glands

Cable glands are available to enable standard multi-core cables to be connected without the use of conduit.
Two sizes are possible:

Part number	Cable size
PG13.5	ø9-12mm
PG13.5/6	ø6-9mm

Plug and socket footswitches

All PX series footswitches can be converted to a plug-in style by the addition of an adaptor. See previous page for diagram.
The adaptor is screwed into the footswitch and the four flying leads connected to the four terminals of the contact block. Suitable 4-wire plug leads are available.

Ratings:	250VAC/300VDC	3A	IP67
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Note: There is space under the terminal cover to allow the fitting of a small amount of control components, e.g. relays, terminal blocks etc., which should be secured to prevent interference with the footswitch mechanism.

Contact ratings

BS/EN 60947-5-1		
AC15	230VAC	6A
	400VAC	4A
	500VAC	1A
DC13	24VDC	6A
	125VDC	1.1A
	250VDC	0.4A

Contact blocks

The contact blocks can also be purchased separately without the footswitches and be used as stand-alone limit switches.
The contacts are electrically separated so it is possible to connect different voltages to NO and NC circuits i.e. Zb contacts. The NC contacts also have positive break, i.e. suitable for safety circuits.
Contact arrangements:

1NO+1NC		1NO+1NC	
VF B501	13 21 └─┴─┐ 14 22	VF B601	13 21 └─┴─┐ 14 22
	2NC		2NO
	VF B901		VF B1001
	11 21 └─┴─┐ 12 22		13 23 └─┴─┐ 14 24



Terminal screws: M3.5
with rising cable clamps.
Maximum screw
tightening torque:
0.8Nm (8kg cm).