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FOOT SWITCHES IN THERMOPLASTIC MATERIAL AND ALUMINIUM DIE CAST
PS... / PD... SERIES

Applications

Foot switch operated machines such as: shearing machines, spinning machines, spinning lathers, machine tools, wrapping machines, riveting presses, etc.
Foot switches come in three operation 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 end of the foot.
- **Foot switch latched in low position:** same operation as free movement, excepted that a state of rest is obtained only after having unlatched the pedal with the end of the foot.

Description of the switch

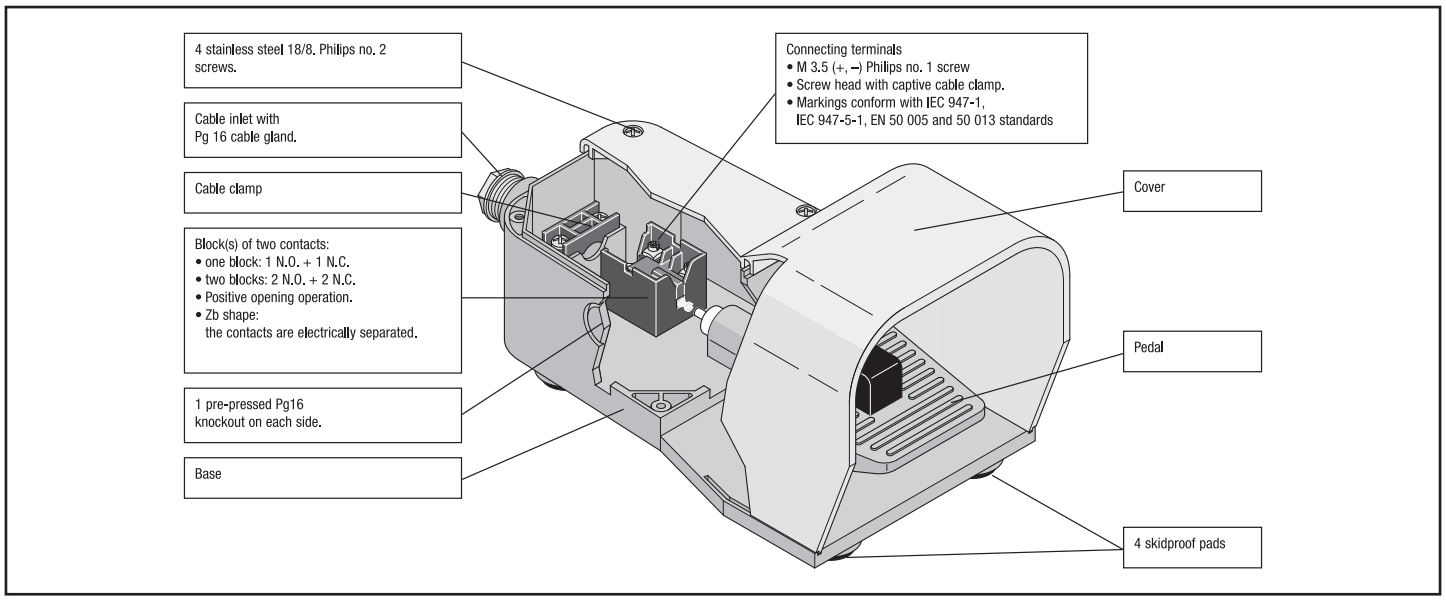
- **Dimensions:** 280 x 140 x138mm.
- **Materials:**
  Standard version *(IMQ approved):* Base, cover and pedal made of shock resistant ABS material.
  Self-extinguishing / V0 *(IMQ, UL, CSA approved):* Base, cover and pedal made of Polycarbonate/ABS-V0.
  Metal version / V0-M *(IMQ, UL, CSA approved):* Cover made in die cast aluminium, base and pedal made of Polycarbonate/ABS-V0.

Colour choice

Grey base; grey, yellow or red cover

Variations

Grey base, half-red cover. Especially used for emergency stop function.



Symbols

Example: P S 1 2 1 1 / V0

Structure: P [ ] [ ] [ ] [ ] [ ] / [ ]

S = Simple Foot Switch
D = Double Foot Switch

1 = Shock-resistant ABS-material

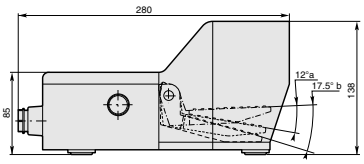
1 = Free movement of the lever
2 = Movement of the lever dependend of the safety device notch
3 = Device to maintain the lever in lowered down position

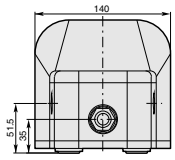
Contact blocks
1 - One (NO+NC) snap action contact
2 - One (NO+NC) slow action contact
3 - Two (NO+NC) snap action contacts
4 - Two (NO+NC) slow action contacts

Optional versions
V0 = Self-extinguishing
V0-M = Self-extinguishing with aluminium cover

Cover colour **1 =** Yellow / **2 =** Grey / **3 =** Yellow + Grey (PD series)
4 = Red / **5 =** Half red cover / **6 =** Light grey base and cover

Dimensions (in mm)





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Foot Switches
Technical Data

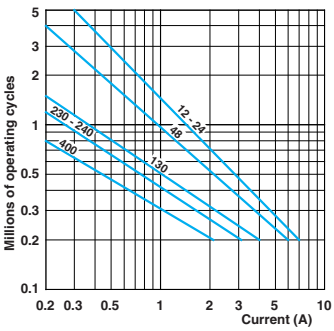
General Technical Data

		Foot Switch with Cover	
Standards		IEC 947-5-1	
Certifications - Approvals		UL - CSA (upon request)	
Air temperature near the device			
– during operation	°C	– 10 ... + 70	
– for storage	°C	– 30 ... + 80	
Climatic withstand		according to IEC 68-2-3 and salty mist according to IEC 68-2-11	
Protecion against electrical shocks (according to IEC 536)		Thermoplastic cover Class II	Aluminium cover Class I
Shock withstand (according to IEC 68-2-27 and EN 60 068-2-27)	g	50g (1/2 sinusoidal shock for 11 ms)	
		no change in contact position	
Degree of protection (according to IEC 529 and EN 60 529)		IP 65	
Operating Torque	N.m	0,25	
Operating angle	Degree	15	
Cable inlet		Pg 16	

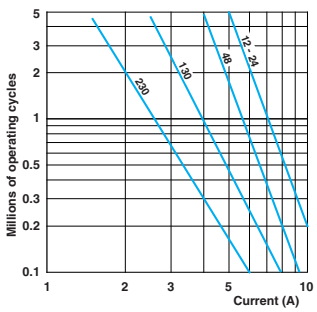
Electrical Data

Rated insulation voltage U_i		V	690 (according to IEC 947-1 and EN 60-947-1) Degree of pollution 3
Rated impulse withstand voltage U_{imp} (according to IEC 947-1 and EN 60 947-1)		kV	6
Conventional free air thermal current I_{th} $\theta < 40$ °C			10 (according to IEC 947-1)
Short-circuit protection U_e < 500 V a.c. - gG (gl) type fuses		A	10
Rated operational current		A	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)	24 V	A	10
	120 V	A	6
	230 V	A	3.1
	240 V	A	3
	400 V	A	1.8
DC-13 (according to IEC 947-5-1)	24 V	A	2.8
	125 V	A	0.55
	250 V	A	0.27
Resistance between contacts	mΩ	30	25
Connecting terminals			M3.5 (+, –) pozidriv with cable clamp
Positive opening operation (according to IEC 947-5-1)			⊖
Connecting capacity	1 or 2 x mm²		0.75 ... 2.5
Terminal marking			According to EN 50 013
Mechanical durability	Millions of operations		30
Electrical durability	Operations		utilization categories AC-15 and DC-13 (Load factor of 0.5 according to curves below)

AC-15 - Snap action



AC-15 - Slow action



DC-13		Snap action	Slow action
		Power breaking for a durability of 5 million operating cycles	
Voltage	24 V	9.5 W	12 W
Voltage	48 V	6.8 W	9 W
Voltage	110 V	3.6 W	6 W

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