COMEPI
componenti elettrici per industria

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

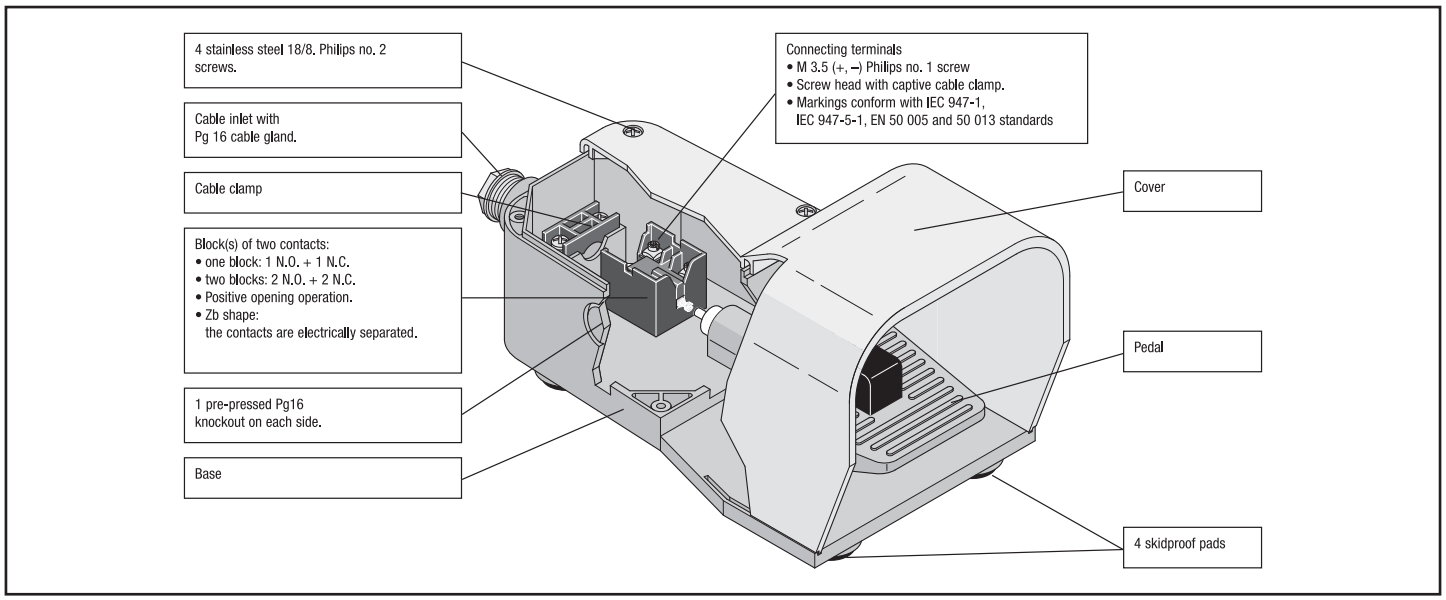
- **Dimensions:** 280 x 140 x138mm.
- **Materials:**
  Standard version *(IMQ approved):* Base, cover and pedal made of shock resistant ABS material.
  Self-extinguishing / V0 *(IMQ, UL, CSA approved):* Base, cover and pedal made of Polycarbonate/ABS-V0.
  Metal version / V0-M *(IMQ, UL, CSA approved):*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

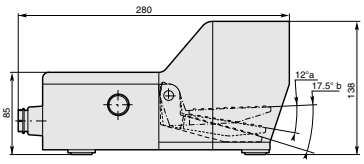
1 = Free movement of the lever
2 = Movement of the lever dependend of the safety device notch
3 = Device to maintain the lever in lowered down position

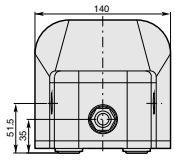
Contact blocks
1 - One (NO+NC) snap action contact
2 - One (NO+NC) slow action contact
3 - Two (NO+NC) snap action contacts
4 - Two (NO+NC) slow action contacts

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)





PS... / PD... Foot Switches

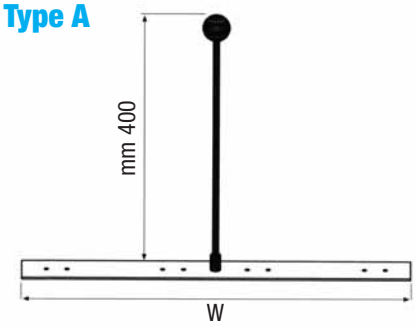
Double Insulation - Plastic Casing IP65

Accessories

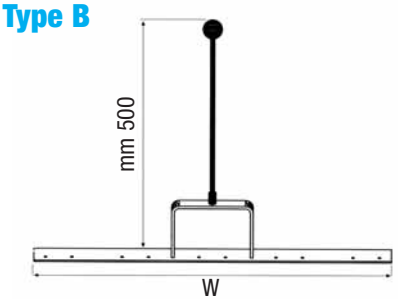
Carryng Rod Kits

Example of application

Type A



Type B

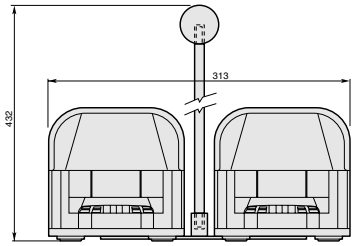


Order Code	Description	W (mm)	Type
PD1000	Max 2 Foot Switches*	350	A
PD1001	Max 3 Foot Switches*	520	B
PD1002	Max 4 Foot Switches*	700	A
PD1003	Max 5 Foot Switches*	850	B

** Foot Switches not included*

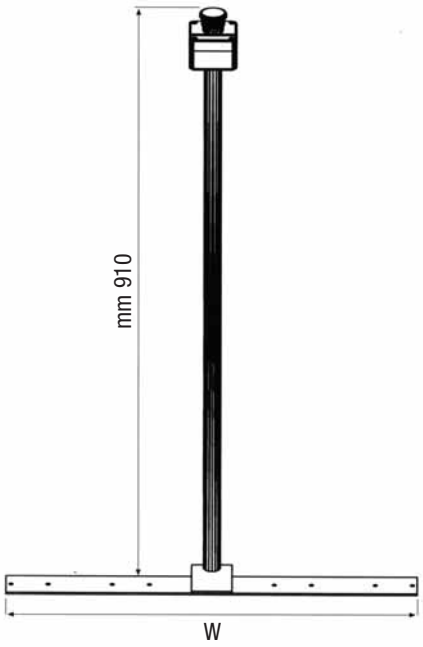
Note: Each carrying rod kit includes necessary fixing screws and cable glands for the specified number of foot switches.

Example of double foot switch application



Metal Steel Frame

Example of application



Order Code	Description	W (mm)
GR2025	For 1 Foot Switch only*	230
GR2026	Max 2 Foot Switches*	350
GR2027	Max 3 Foot Switches*	530
GR2028	Max 4 Foot Switches*	700

** Foot Switches not included*

Attention!
Push button and plastic box not included: please consult our "Control Units Ø22" catalog.

Note: Each carrying rod kit includes necessary fixing screws and cable glands for the specified number of foot switches.

MP... - Mini Foot Switches

Plastic Casing

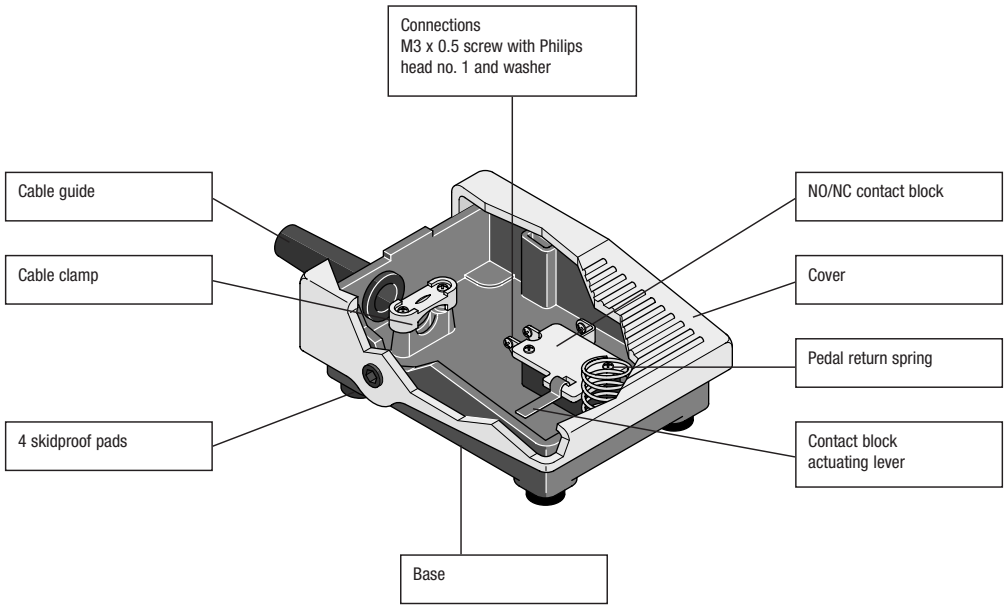
Description

Applications

Comepi foot switches of the MP series are plastic foot switches in mini design that besides their robust form and technical versatility are specially convincing for their functionality and ergonomic design. They can be applied on foot switch operated machines such as: shearing machines, spinning lathers, machine tools, wrapping machines, riveting presses, etc.

Description of MP6... Mini Foot Switches

- **Dimensions:** 100 x 75 x 34 mm.
- **Materials:** cover and base made of self-extinguishing ABS.
- **Colour choice:** black or grey base; black, grey, yellow or red cover.



Symbols

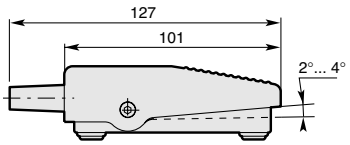
Example: MP61 | 2 | 3

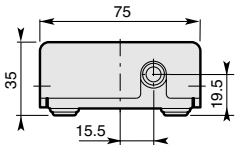
Structure: MP61 | | |

1 = Grey base
2 = Black base

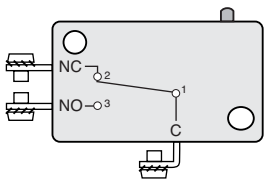
Cover colour
1 = Yellow / **2** = Grey / **3** = Black / **4** = Red

Dimensions (in mm)





NO / NC Contact Block



• **Technical data** ..... page 63

Foot Switches
Technical Data

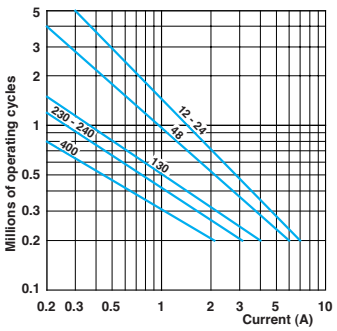
General Technical Data

		Mini Foot Switch	Foot Switch with Cover
Standards		IEC 1058-1	IEC 947-5-1
Certifications - Approvals		–	UL - CSA (upon request)
Air temperature near the device			
– during operation	°C	– 10 ... + 70	– 10 ... + 70
– for storage	°C	– 25 ... + 80	– 30 ... + 80
Climatic withstand		–	according to IEC 68-2-3 and salty mist according to IEC 68-2-11
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 40	IP 65
Operating Torque	N.m	1.2	0,25
Operating angle	Degree	2 to 4	15
Cable inlet		Cable guide ø 6 mm; ø max. 8.5	Pg 16

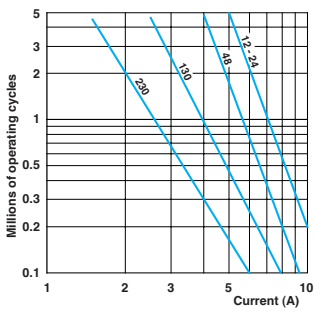
Electrical Data

Rated insulation voltage U_i		V	250	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	1	6
Conventional free air thermal current I_{th} $\theta < 40$ °C			15	10 (according to IEC 947-1)
Short-circuit protection U_e < 500 V a.c. - gG (gl) type fuses		A	10	10
Rated operational current		A	3 (250 V a.c.)	A 600 (according to UL 508 and CSA C22-2 n° 14)
		A	0.06 (230 V d.c.)	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 x 0.5 screw with Philips head no. 1 and washer	M3.5 (+, –) pozidriv with cable clamp
Positive opening operation (according to IEC 947-5-1)			–	⊖
Connecting capacity		1 or 2 x mm^2	–	0.75 ... 2.5
Terminal marking			(Refer to contact block page 62)	According to EN 50 013
Mechanical durability		Millions of operations	10	30
Electrical durability		Operations	100 000	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

• **Ordering details** ..... page 60 to 62