

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article				options		
PX	10	110)- A	M2	X	
	T-	ΠŢ	\top			

Foot switches

PX with pedal actuator protection

PA without pedal actuator protection

Protections	CO	lour

- red RAL 3020
- grey RAL 7040
- black RAL 9017
- blue RAL 5017

Contact blocks combination

01	1NO+1NC	snap action	(V/F	R501)

- 02 2x (1NO+1NC), snap action (VF B501+VF B501)
- 1NO+1NC, slow action (VF B601)
- 04 2x (1NO+1NC), slow action (VF B601+VF B601)
- 2x 2NO, slow action (VF B1001+VF B1001)
- 06 2x 2NC, slow action (VF B901+VF B901)
- 07 2NC, slow action (VF B901)
- 80 2NO, slow action (VF B1001)
- 09 1NO+1NC, slow action overlapped (VF B701)
- 20 2x (1NO+1NC), snap action shifted (VF B501+VF B501)

Contact block features see page 2/175

External metallic parts

zinc plated steel (standard)

X stainless steel

Threadedconduitentries

PG 13,5 (standard)

M2 M20x1,5

Accessories (only PX series)

without accessories

- complete with polymer carrying
- rod (400 mm)
- with M25 hole for VF KIT31
- with M25 hole for VF KIT31 complete with stabilizing plate
- complete with polymer carrying rod

(660 mm)

Protection degree

IP53

1 IP65

Devices

- without devices
- with safety lever
- with lock of the pedal actuator
- without safety lever and with two-stage actuating force (only for contact block combination 20)
- with safety lever and with two-stage actuating force (only for contact block combination 20)

1A

1B

2A

2B

2C

2D

2E

3

3A

3C

3B

4A 4B

4C

4D 4E

4G

4H

6



Main data

- Polymer housing, three conduit entries
- Protection degree IP53 or IP65
- Various contact blocks available
- Various auxiliary devices available
- Assembled through special joining kits

Utilization categories

Alternate current: AC15 (50÷60 Hz) Ue (V) 250 400 500 le (A) 6 4 Direct current: DC13 125 250 Ue (V) 24 le (A) 1,1 0,4

Markings:



Housing

Made of glass-reinforced polymer, self-extinguishing, shock-proof thermoplastic

resin and with double insulation \square

Actuating force: 16 N

One threaded conduit entry

Protection degree: IP53 or IP65 according to EN 60529

General data

Ambient temperature: from -25°C to +80°C
Max operating frequency: 3600 operations cycles¹/hour
Mechanical endurance: 20 million operations cycles¹
(1) One operation cycle means two movements, one to close and one to open contacts, as foreseen by EN 60947-5-1 standard.

Electrical data

Thermal current (Ith): 10 A

Rated insulation voltage (Ui): 500 Vac 600 Vdc

Conditional shot circuit current: 1000 A according to EN 60947-5-1 Protection against short circuits: 1000 A 500 V type aM

Pollution degree: 3

Cross section of the conductors (flexible copper wire)

Contact block combinations: min. $1 \times 0.5 \text{ mm}^2$ $(1 \times AWG 20)$ max. $2 \times 2.5 \text{ mm}^2$ $(2 \times AWG 14)$

In conformity with standards:

IEC 60947-5-1, EN 60947-5-1, IEC 60529, EN 60529, VDE 0660-200, CENELEC EN 50013.

In conformity with requirements requested by:

Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and Electromagnetic Compatibility 2004/108/EC.

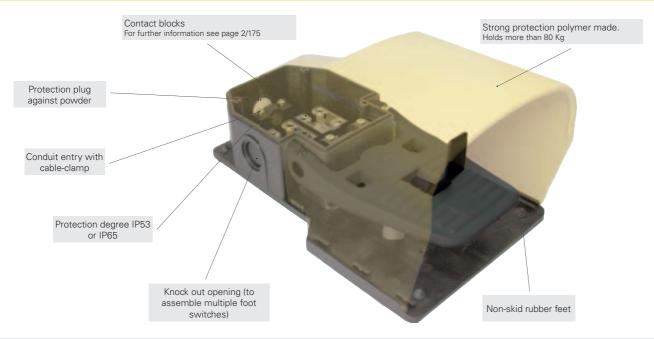
Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1, VDE 0660-206.

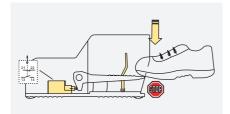
Installation for safety applications:

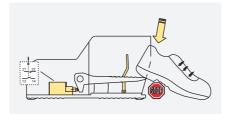
Use only switches marked with the symbol ⊕. The safety circuit must always be connected with the NC contacts (normally closed contacts: 11-12, 21-22 or 31-32) as stated in the standard EN 60947-5-1, encl. K, par. 2.

⚠ If not expressly indicated in this chapter, for the right installation and the correct utilization of all articles see requirements indicated from page 6/1 to page 6/10.

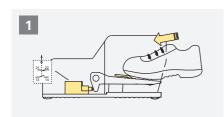


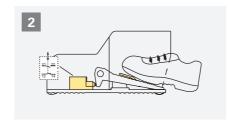
Devices: safety lever (e.g. article PX 10110)





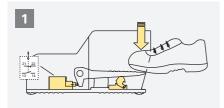
The safety lever prevents the pedal actuator from lowering when the foot is not completely inserted, thus preventing casual or accidental actuation.



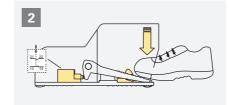


The foot must be completely inserted in order to lower the safety lever and push down the pedal actuator.

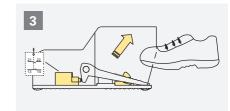
Devices: lock of the pedal actuator (e.g. article PX 10120)



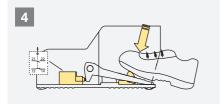
Insertion of the foot in the foot switch



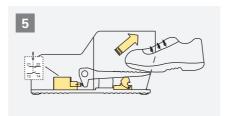
Pushing down the pedal actuator, the contact switches and the device locks the actuator



Releasing the pedal actuator, the lock device keeps it down

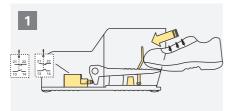


To unlock the pedal actuator, push the locking device

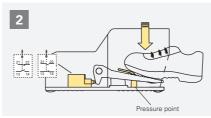


With drawing the foot from the foot switch, the pedal actuator and the contacts return to their initial positions

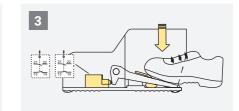
Devices: actuating force in 2 stages (e.g. article PX 12040)



PX foot switches with two overlapped snap action contact blocks (2x 1NO+1NC), two steps actuation force and safety lever.



With a light pressure (~19 N) on the pedal actuator, the first contact block switches while the second keeps its state. The pedal actuator stops at pressure point



Pushing down with higher force (~ 180 N) on the pedal actuator, the second contact block switches as well. In this position both contact blocks have been switched.

1B

2A **2B**

2C 2D

2E

3A

3B **3C**

4A

4B 4C

4D

4E

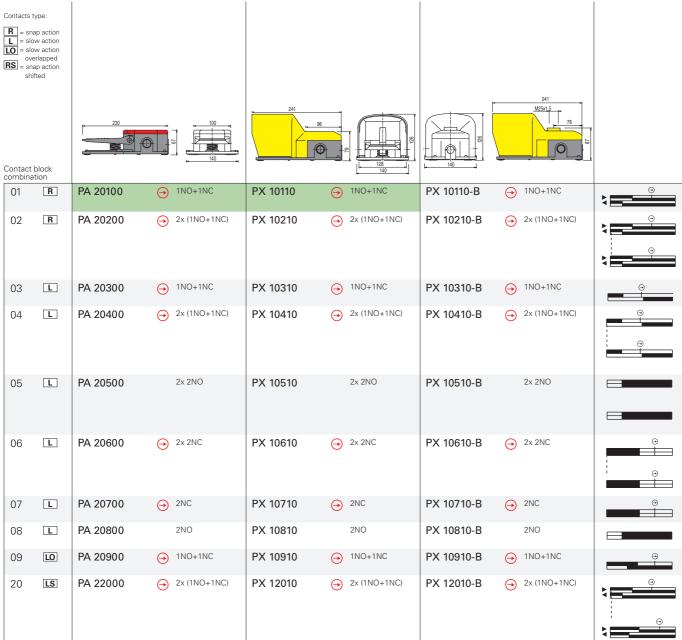
4G

4H

5

6

Dimensional drawings



1A

1B

2A

2B

2C

2D

2E

3A

3B

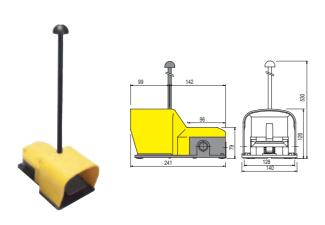
3C

4

6

Combination examples

Foot switch with pedal actuator protection and polymer carrying rod (400 mm)



Foot switch with pedal actuator protection and polymer carrying rod (660 mm)



How to order:



This article can be bought also with single code PX 10110-A. In this case the cover is supplied already pierced for the carrying rod fixing. How to order:

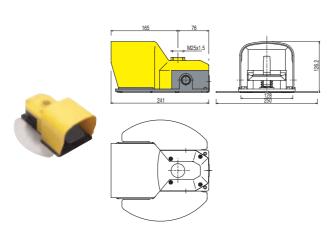
PX 10110-B

VF KIT60

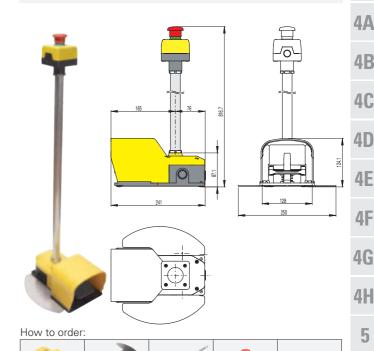
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PX 10110	VF KIT22		

This article can be bought also with single code PX 10110-D. In this case the cover is supplied already pierced for the carrying rod fixing.

Foot switch with pedal actuator protection having a hole M25x1,5 and stabilizing plate



Foot switch with pedal actuator protection and aluminium pipe, stabilizing plate and emergency push button 1NC



VF KIT31

VF KIT32

How to order



This article can be bought also with single code PX 10110-C.