Selection diagram

- **CARRYING ROD**
  - See page 3/10

- **ADDITIONAL METAL PROTECTION**

- **OPEN PROTECTIONS**
  - PA 5
  - PA 2

- **CONTACT BLOCKS COMBINATIONS**
  - 01
    - 1NO+1NC
    - snap action
  - 02
    - 2NO+2NC
    - snap action

- **DEVICES**
  - 0
    - Without devices
  - 1
    - With safety lever
  - 2
    - Lock of the pedal actuator
  - 3
    - with two-stage actuating force
  - 4
    - With safety lever and with two-stage actuating force

- **THREADING CONDUIT ENTRY**
  - PG 13.5 (standard)
  - M2, M20x1.5

- **STABILIZING PLATE**

- **product option**
- **accessory sold separately**
Contact blocks combination

- **01**: 1NO+1NC, snap action (VF B501)
- **02**: 2x (1NO+1NC), snap action (VF B501+VF B501)
- **03**: 1NO+1NC, slow action (VF B601)
- **04**: 2x (1NO+1NC), slow action (VF B601+VF B601)
- **05**: 2x 2NO, slow action (VF B1001+VF B1001)
- **06**: 2x 2NC, slow action (VF B901+VF B901)
- **07**: 2NC, slow action (VF B901)
- **08**: 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

Foot switches

- **PX**: with pedal actuator protection
- **PA**: without pedal actuator protection

External metallic parts

- zinc plated steel (standard)
- stainless steel

Protection degree

- **0**: IP53
- **1**: IP65

Devices

- **0**: without devices
- **1**: with safety lever
- **2**: with lock of the pedal actuator
- **3**: without safety lever and with two-stage actuating force (only for contact block combination 20)
- **4**: with safety lever and with two-stage actuating force (only for contact block combination 20)

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 colour

- yellow RAL 1023
- red RAL 3020
- grey RAL 7040
- black RAL 9017
- blue RAL 5017

Threaded conduit entries

- PG 13,5 (standard)
- M20x1,5

External metallic parts

- zinc plated steel
- stainless steel

Code structure

**PX 10110-AM2X**

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

**Contact blocks combination**

- **01**: 1NO+1NC, snap action (VF B501)
- **02**: 2x (1NO+1NC), snap action (VF B501+VF B501)
- **03**: 1NO+1NC, slow action (VF B601)
- **04**: 2x (1NO+1NC), slow action (VF B601+VF B601)
- **05**: 2x 2NO, slow action (VF B1001+VF B1001)
- **06**: 2x 2NC, slow action (VF B901+VF B901)
- **07**: 2NC, slow action (VF B901)
- **08**: 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

**Foot switches**

- **PX**: with pedal actuator protection
- **PA**: without pedal actuator protection

**Protection colour**

- yellow RAL 1023
- red RAL 3020
- grey RAL 7040
- black RAL 9017
- blue RAL 5017

**External metallic parts**

- zinc plated steel (standard)
- stainless steel

**Threaded conduit entries**

- PG 13,5 (standard)
- 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**

- **0**: IP53
- **1**: IP65

**Devices**

- **0**: without devices
- **1**: with safety lever
- **2**: with lock of the pedal actuator
- **3**: without safety lever and with two-stage actuating force (only for contact block combination 20)
- **4**: with safety lever and with two-stage actuating force (only for contact block combination 20)
Single foot switches PX and PA series

Housing
Made of glass-reinforced polymer, self-extinguishing, shock-proof thermoplastic resin and with double insulation.
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 cycles/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: fuse 10 A 500 V type aM
Pollution degree: 3

Cross section of the conductors (flexible copper wire)
Contact block combinations:
min. 1 x 0,5 mm² (1 x AWG 20)
max. 2 x 2,5 mm² (2 x 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:
Positive contact opening in conformity with standards:
IEC 60947-5-1, EN 60947-5-1, VDE 0660-206.

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
Ie (A) 6 4 1
Direct current: DC13
Ue (V) 24 125 250
Ie (A) 6 1,1 0,4

Markings:

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.
3A Single foot switches PX and PA series

Dimensional drawings

Contacts type:
- \( \text{R} \) = snap action
- \( \text{L} \) = slow action
- \( \text{LO} \) = slow action overlapped
- \( \text{RS} \) = snap action shifted

Contact block combination

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Accessories See page 5/1

All measures in the drawings are in mm

Items with code on the green background are available in stock

page 3/5
**Combination examples**

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

How to order:

PX 10110 VF KIT21

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.

**Foot switch with pedal actuator protection and polymer carrying rod (680 mm)**

How to order:

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**

How to order:

PX 10110-B VF KIT60

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

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

How to order:

PX 10110-B VF KIT60 VF KIT31 VF KIT32