P-KUBE 1 safety handles for FD, FG and FY series switches

Description



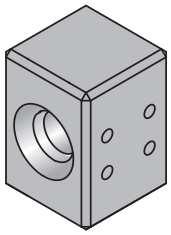
The **P-KUBE 1** safety handles are designed to install Pizzato Elettrica's FD, FG and FY series safety switches to machine guards quickly and easily, offering an effective solution to machine designers and installers for problems relating to the mechanical precision of guard movements.

The basic principle of this series of products is a mechanical centring and stop system along the direction of movement of the door. The centring system is extremely robust and can also be used in heavy duty applications or in the presence of careless personnel.

The lock out device is used to block the door in the open position and prevent an unexpected system restart when maintenance personnel access the system.

Thanks to their adjustable design these handles can be installed on different types of doors or barriers: hinged or sliding, right or left closing, as well as on various types of profiles.

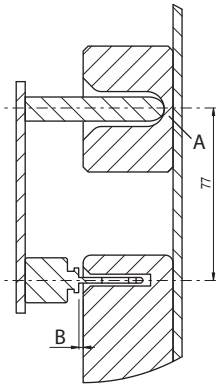
Robustness



Thanks to its particular design and its special materials the safety handle can be used in heavy duty applications and with sturdy wide-ranging guards (min. 700 mm).

- Mounting system made up of robust painted brackets with thicknesses of 4 and 5 mm.
- Single-body centering block in stainless steel
- Large diameter centring pin in stainless steel
- Max. holding force of the actuator equal to 3000 N (versions with FG series switches).
- Stainless steel tamper proof bolts and screws and elastic washers (safety inserts excluded, see page 213).

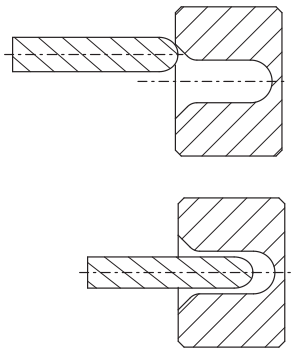
Mechanical stop



During door closing, the metal pin is flush to the bottom of the centring block (A) before the actuator can bump against the switch housing, leaving a safe distance (B), thus avoiding possible damage.

The metal pin is always flush on surfaces that transmit the impact to the frame and not to the switch, regardless of whether the lock out device is open or closed.

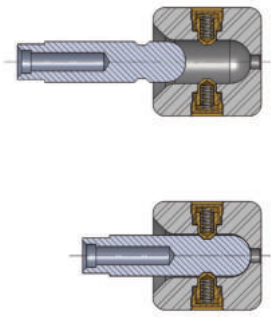
Centring



The centering of the pin on the block (both in stainless steel) forces the alignment between actuator and switch, ensuring a proper insertion preventing any risk of collisions.

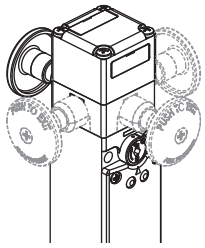
This also allows a safe re-alignment of the protection to the frame, even in case of big axial misalignments.

Holding force of the unlocked actuator



A version of the lock out device with 100 N holding force is available on request. With this new optional feature, the handle is kept in its limit-stop closed position; a moderately energetic pull is required to open the door. This device is ideal for all applications where multiple doors are unlocked simultaneously but only one is actually opened; all unlocked doors are held in position, thereby preventing vibrations or gusts of wind from opening them.

Escape release button (FG and FY series)

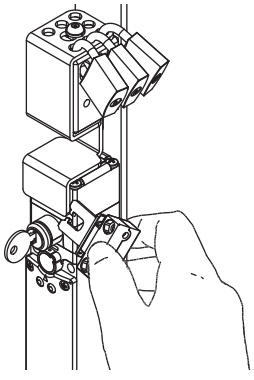


The FG and FY series switches with actuator lock can be provided with an escape release button that, if oriented towards the inside of the machinery, allows accidentally trapped personnel to escape even during a blackout.

Pushing the button results in the same function as the auxiliary release device. To reset the switch, just return the button to its initial position.

The escape release button can be rotated and is available with different lengths. It is fixed to the switch by means of a screw allowing the installation of the switch both inside and outside the guards.

Impossible to bypass with a separate actuator



As soon as the lock out device has been actuated and locked, the slot in the switch for the actuator is no longer accessible.

If an operator is in possession of a second, separate actuator, he is not able to bypass blocking of the device and actuate the switch.

P-KUBE 1 safety handles for FD, FG and FY series switches

Code structure

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

VF AP-P11A-200P

LOCK OUT device	
0	Centering block only
1	LOCK OUT device
2	LOCK OUT device with 100 N holding force

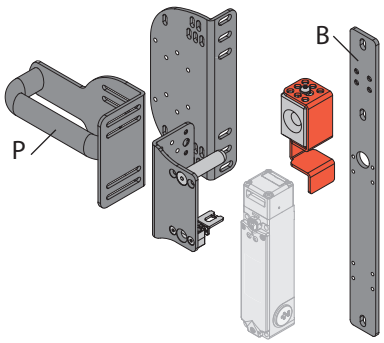
Grip	
P	plastic grip
M	metal grip
Z	without grip

Mounting bracket supplied for installation	
A	FD ••••
B	FG ••••••••, FY ••••••••
Z	without plate (B) for FG and FY brackets
Y	without plate (A) for FD brackets

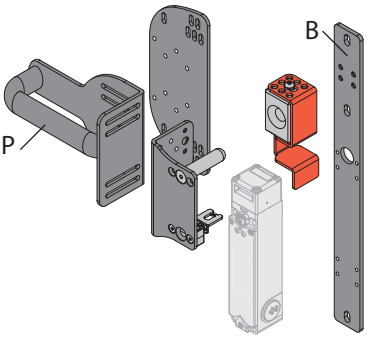
Plate configuration	
200	Configuration with adjustable "L" plate for door profiles
201	Configuration with adjustable plain plate for door profiles
202	Configuration without adjustable plate for door profiles

Note: the handle is supplied complete with switch actuator as well as fastening screws for the grip, the switch, the actuator, and between the plates.

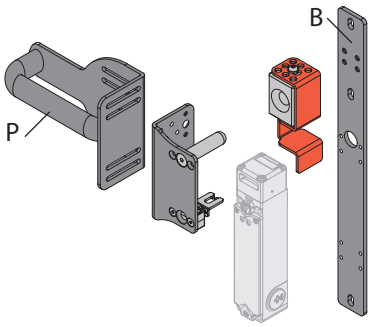
VF AP-P11B-200P

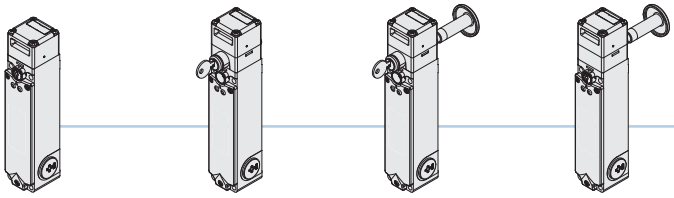


VF AP-P11B-201P



VF AP-P11B-202P





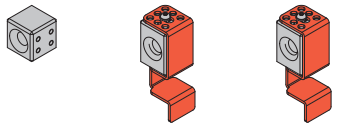
FG •••D1D••
Safety switch with solenoid and separate actuator.

FG •••D5D••
Safety switch with solenoid and separate actuator.
With key release.

FG •••D6D••
Safety switch with solenoid and separate actuator.
With key release and escape release button.

FG •••D7D••
Safety switch with solenoid and separate actuator.
With escape release button.

Lock out device options:

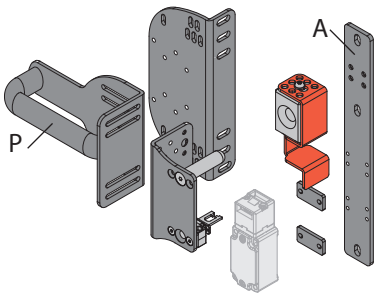


0
Centering block only

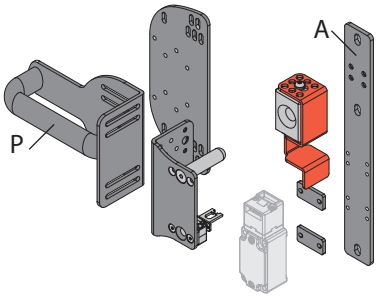
1
With LOCK OUT device

2
With LOCK OUT device with 100 N holding force

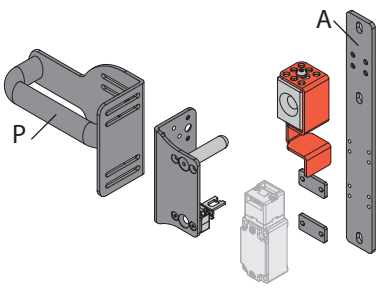
VF AP-P11A-200P



VF AP-P11A-201P



VF AP-P11A-202P





FD •93-M2
Safety switch with separate actuator.

FD •99-M2
Safety switch with separate actuator and key release.

For articles and options of the FG series switches see page 123.
For articles and options of the FY series switches see page 139.
For articles and options of the FD series switches see page 17.

→ article sold separately

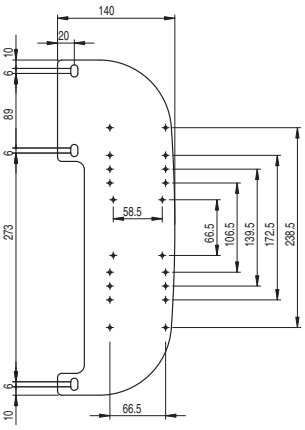
Accessories

Profiled plate





Profiled plate to be installed under the fixing plate of the switch. Suitable for both right and left mounting and provided with holes, this plate can be used for the installation of housings for the Pizzato Elettrica EROUND line panel buttons (by means of common self-threading screws available on the market).



Article	Description
VF AP-C001	Profiled lateral plate

Adhesive labels for escape release button



Polycarbonate yellow adhesive, rectangular, 300x32 mm, red inscription. It has to be fixed on the internal part of the jamb and helps finding the escape release button.

Article	Description and language	
VF AP-A1AGR01	PREMERE PER USCIRE	ita
VF AP-A1AGR02	PUSH TO EXIT	eng
VF AP-A1AGR04	ZUM ÖFFNEN DRÜCKEN	deu
VF AP-A1AGR05	POUSSER POUR SORTIR	fra
VF AP-A1AGR06	PULSAR PARA SALIR	spa
VF AP-A1AGR07	НАЖАТЬ ДЛЯ ВЫХОДА	rus
VF AP-A1AGR08	NACISNĄĆ ABY WYJŚĆ	pol
VF AP-A1AGR09	PRESSIONAR PARA SAIR	por

Safety inserts set



Set with 3 x 1/4" hexagonal safety inserts. Connection DIN 3126, C 6.35. Hex mount with hole.
The P-KUBE 1 safety handle is provided with tamper-proof screws. Therefore all 3 safety inserts of the set are required.

Composition of article **VF AP-K01:**

Qty	Description	⊙	Length
1	Hexagonal insert 1/4" ⬡ for M5 screws	3 mm	25 mm
1	Hexagonal insert 1/4" ⬡ for M6 screws	4 mm	25 mm
1	Hexagonal insert 1/4" ⬡ for M8 screws	5 mm	25 mm

All values in the drawings are in mm

Accessories See page 419

→ The 2D and 3D files are available at **www.pizzato.com**