

Предохранительные выключатели для запираания дверей FG

Технические характеристики

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Description



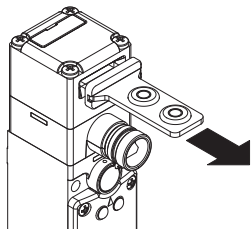
These switches, compliant with EN 81, are used as locking devices for hinged and sliding lift doors.

The door is unlocked by powering the internal solenoid, which then unlocks the actuator inserted in the head, thus allowing the door to be unlocked and opened. Equipped with a locking system with enhanced force, they meet the retention requirements (3000 N) set by the standards EN 81-20 and EN 81-50.

The versions with solenoid actuated NC contacts are considered interlocks with locking in accordance with ISO 14119, and the product's label is marked with the symbol shown.

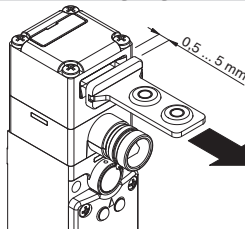


Holding force of the locked actuator



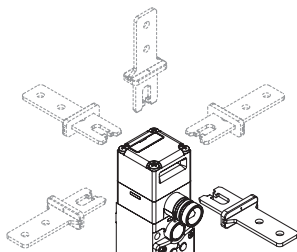
The strong interlocking system guarantees a maximum actuator holding force of 3000 N.

Wide-ranging actuator travel



The actuation head of this switch features a wide range of travel. In this way the guard can oscillate along the direction of insertion (4.5 mm) without causing unwanted machine shutdowns. This wide range of travel is available in all actuators in order to ensure maximum device reliability.

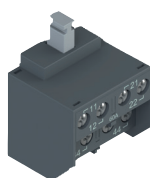
Heads and devices with variable orientation



The system can be variably configured by loosening the 4 screws on the head.

The key release device and the release button can also be rotated and secured independently of one another in steps of 90°. The device can thus assume 32 different configurations.

Contact blocks with 4 contacts



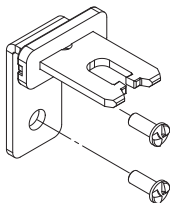
Innovative contact block with 4 contacts, available in various contact configurations for monitoring the actuator or the solenoid (patented). The unit is supplied with captive screws and self-lifting clamping plates. Removable finger protection for eyelet terminal.

High-reliability electrical contacts with 4 contact points and double interruption.

Key release devices with triangular key

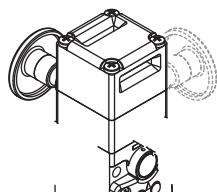


Safety screws for actuators



As required by EN ISO 14119, the actuator must be fixed immovably to the guard frame. Pan head safety screws with one-way fitting are available for this purpose. With this screw type, the actuators cannot be removed or tampered by using common tools. See accessories on page 149.

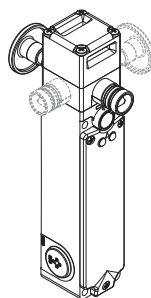
Escape release button



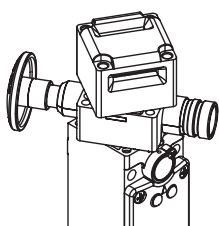
This device is used to safeguard a hazardous area that an operator may enter with his entire body. The release button allows for exit even in the event of possible blackouts. Pushing the button results in the same function as the auxiliary release device. To reset the switch, simply return the button 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.

Key release device and escape release button

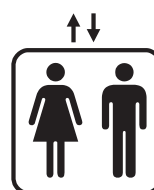


Non-detachable heads and release devices



The head and the release device can be rotated but cannot be detached from each other. This makes the switch more secure since the problem of incorrect assembly by the installer cannot occur; in addition, the risk of damage is lower (loss of small parts, penetration of dirt, etc.).

Compliant with EN 81-20 and EN 81-50



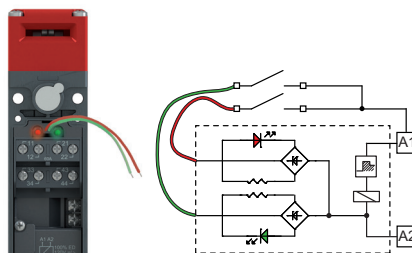


LED display unit, type A



In the version with LED display unit of type A, two green LEDs are switched-on directly by the power supply of the solenoid. Wiring is not necessary.

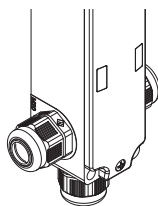
LED display unit, types B and C



Protection degree IP67

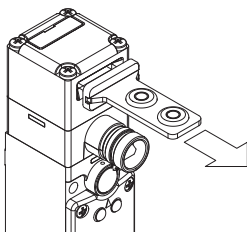
IP67

Three conduit entries



The switch is provided with three conduit entries in different directions. This allows its application in series connections or in narrow places.

Holding force of the unlocked actuator



Laser engraving



All FG series switches are permanently marked with a special laser system. As a result, the marking remains legible even under extreme operating conditions. Thanks to this system that does not use labels, the loss of plate data is prevented and a greater resistance of the marking is achieved over time.

Extended temperature range

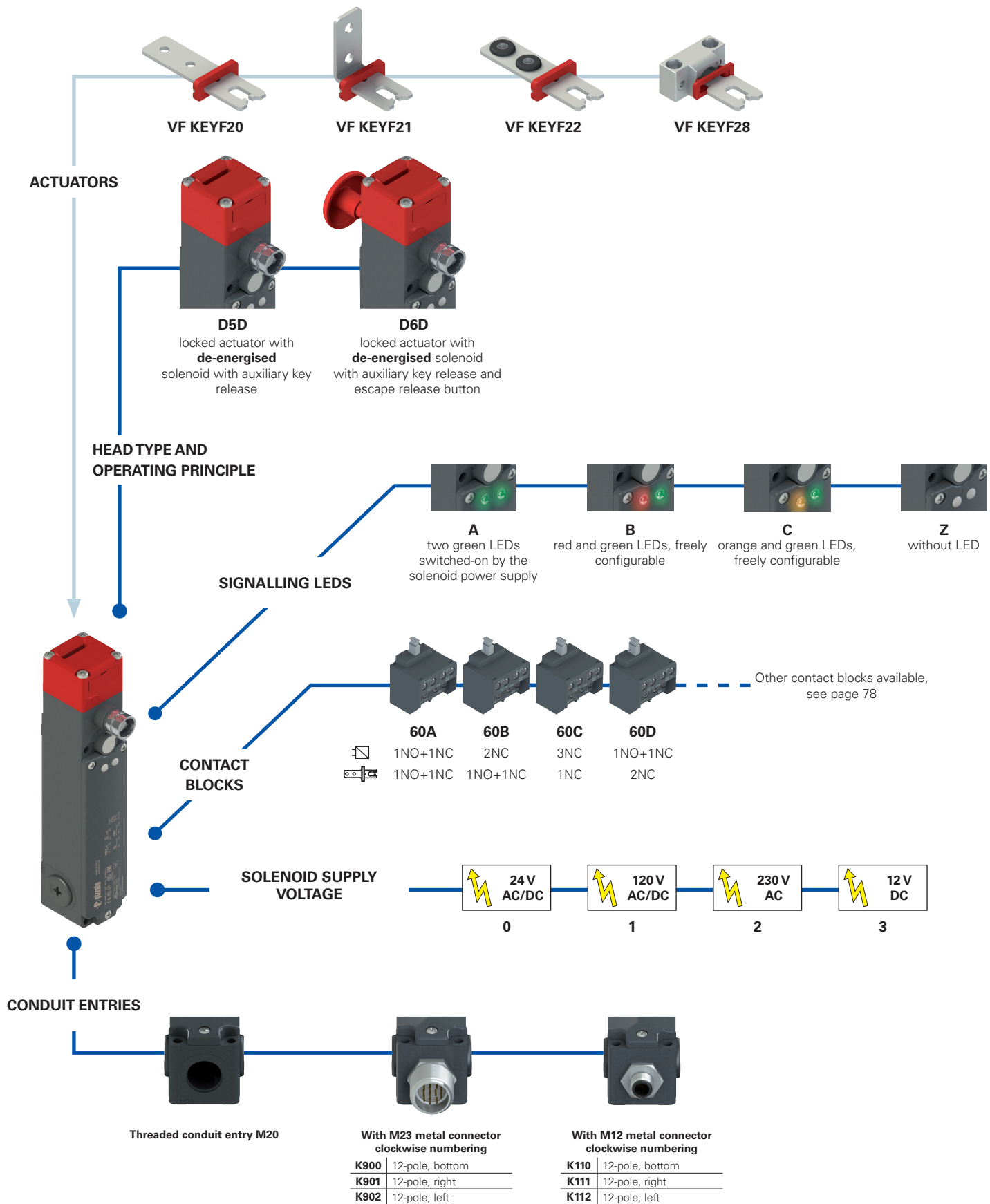
-40°C

LED signalling lights



FG series safety switches for door locking

Selection diagram



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

FG 60AD1D0A-LP30F20GK900T6V70V90

Contact block

	Contacts activated by the solenoid 	Contacts activated by the actuator 
60A	1NO+1NC	1NO+1NC
60B	2NC	1NO+1NC
60C	3NC	1NC
60D	1NO+1NC	2NC
60E	1NO+2NC	1NC
60G	2NC	2NC
60L	2NO+1NC	1NC
60P	1NC	3NC
60S	1NC	2NO+1NC
60T	1NC	1NO+2NC
60X	1NO	3NC
60Y	1NO	1NO+2NC
61E	1NO	2NO+1NC
61G	2NO	1NO+1NC
61H	2NO	2NC
61M	3NO	1NC

Operating principle

D5D	locked actuator with de-energised solenoid. With auxiliary key release.
D6D	locked actuator with de-energised solenoid. With auxiliary key release and escape release button.

Solenoid supply voltage

0	24 Vac/dc (-10% ... +10%)
1	120 Vac/dc (-15% ... +10%)
2	230 Vac (-15% ... +10%)
3	12 Vdc (-10% ... +10%)

Signalling LEDs

A	two green LEDs switched-on by the solenoid power supply
B	red and green LEDs, freely configurable
C	orange and green LEDs, freely configurable
Z	without LED

Ambient temperature

	-25°C ... +60°C (standard)
T6	-40°C ... +60°C

Pre-installed connectors

	without connector (standard)
K900	M23 metal connector, 12-pole, bottom
...	...
K110	M12 metal connector, 12-pole, bottom
...	...

For the complete list of possible combinations please contact our technical department.

Contact type

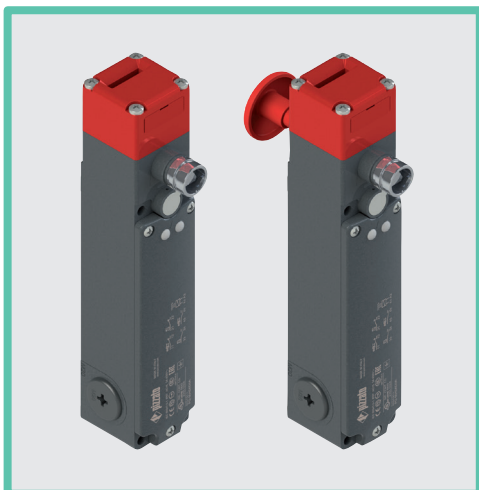
	silver contacts (standard)
G	silver contacts with 1 µm gold coating

Actuators

	without actuator (standard)
F20	straight actuator VF KEYF20
F21	angled actuator VF KEYF21
F22	actuator with rubber pads VF KEYF22
F28	universal actuator VF KEYF28

Release button length

	for max. 15 mm wall thickness (standard)
LP30	for max. 30 mm wall thickness
LP40	for max. 40 mm wall thickness
LP60	for max. 60 mm wall thickness
LPRG	adjustable, for wall thickness from 60 mm to 500 mm



Main features

- Actuator locking force: 3000 N
- 16 contact blocks with 4 contacts
- Metal housing, three M20 conduit entries
- Protection degree IP67
- Auxiliary key release with triangular lock and spring return
- 4 stainless steel actuators
- Head and release devices, individually turnable and non-detachable
- Signalling LEDs

Quality marks:



IMQ approval

(dir. 2014/35/EU): CA02.03808

IMQ approval

(dir. 2014/33/EU): CA50.00781

UL approval:

E131787

CCC approval:

2021000305000103

EAC approval:

RUC-IT.YT03.B.00035/19

Technical data

Housing

Metal head and housing, baked powder coating.

Three threaded conduit entries:

Protection degree:

M20x1.5 (standard)
IP67 acc. to EN 60529 with
cable gland of equal
or higher protection degree

General data

SIL (SIL CL) up to:

SIL 3 acc. to EN 62061

Performance Level (PL) up to:

PL e acc. to EN ISO 13849-1

Interlock with mechanical lock, coded:

type 2 acc. to EN ISO 14119

Coding level:

low acc. to EN ISO 14119

Safety parameters:

B_{10D}:

5,000,000 for NC contacts

Mission time:

20 years

Ambient temperature:

-25°C ... +60°C (standard)

-40°C ... +60°C (T6 option)

Max. actuation frequency:

600 operating cycles/hour

Mechanical endurance:

1 million operating cycles

Max. actuation speed:

0.5 m/s

Min. actuation speed:

1 mm/s

Locking closure force:

3000 N

Maximum clearance of locked actuator:

4.5 mm

Released actuator extraction force:

30 N

Tightening torques for installation:

see page 159

Wire cross-sections and

wire stripping lengths:

see page 170

Solenoid

Duty cycle:

100% ED (continuous operation)

Solenoid consumption:

9 VA

In compliance with standards:

IEC 60947-5-1, IEC 60947-1, IEC 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, IEC 61000-6-2, IEC 61000-6-3, EN IEC 63000, EN 81-20, EN 81-50, BG-GS-ET-15, BG-GS-ET-19, UL 508, CSA C22.2 No. 14.

Approvals:

EN 60947-5-1, UL 508, CSA C22.2 No. 14, GB/T14048.5

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU, Lift Directive 2014/33/EU, Machinery Directive 2006/42/EC, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU.

Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1.

⚠ If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on pages 153 to 162.

Electrical data		Utilization category			
without connector	Thermal current (I_{th}):	10 A	Alternating current: AC15 (50÷60 Hz)		
	Rated insulation voltage (U_i):	400 Vac 300 Vdc	U_e (V)	120	250
	Rated impulse withstand voltage (U_{imp}):	6 kV	I_e (A)	6	5
	Conditional short circuit current:	1000 A acc. to EN 60947-5-1	Direct current: DC13		
	Protection against short circuits:	type gG fuse 10 A 500 V	U_e (V)	24	125
	Pollution degree:	3	I_e (A)	3	0.7
with M23 connector, 12-pole	Thermal current (I_{th}):	8 A	Alternating current: AC15 (50÷60 Hz)		
	Rated insulation voltage (U_i):	250 Vac 300 Vdc	U_e (V)	120	250
	Protection against short circuits:	type gG fuse 8 A 500 V	I_e (A)	6	5
	Pollution degree:	3	Direct current: DC13		
			U_e (V)	24	125
			I_e (A)	3	0.7
with M12 connector, 12-pole	Thermal current (I_{th}):	1.5 A	Alternating current: AC15 (50÷60 Hz)		
	Rated insulation voltage (U_i):	30 Vac 36 Vdc	U_e (V)	24	
	Protection against short circuits:	type gG fuse 1.5 A	I_e (A)	1.5	
	Pollution degree:	3	Direct current: DC13		
			U_e (V)	24	
			I_e (A)	1.5	

Features approved by IMQ

In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

Rated insulation voltage (U_i):	400 Vac
Conventional free air thermal current (I_{th}):	10 A
Protection against short circuits:	type gG fuse 10 A 500 V
Rated impulse withstand voltage (U_{imp}):	6 kV
Protection degree of the housing:	IP67
MV terminals (screw terminals)	
Pollution degree:	3
Utilization category:	AC15
Operating voltage (U_o):	400 Vac (50 Hz)
Operating current (I_o):	3 A

Forms of the contact element: X+X+X+X, Y+Y+Y+Y, X+Y+Y+Y, X+X+Y+Y, X+X+X+Y
Positive opening of contacts on all contact blocks: 60A, 60B, 60C, 60D, 60E, 60G, 60L, 60P, 60S, 60T, 60X, 60Y, 61E, 61G, 61H, 61M

In compliance with standards: EN 81-20, EN 81-50, fundamental requirements of the Lift Directive 2014/33/EU.

Protection degree of the housing:	IP67
Resistance to tracking:	TK 175V
MV terminals (screw terminals)	
Operating voltage (U_o):	250 V c.a. / a.c. – 200 V c.c. / d.c.
Operating current (I_o):	2 A c.a. / a.c. – 0,5 A c.c. / d.c.

Forms of the contact element: Y+Y+Y+Y, X+Y+Y+Y, X+X+Y+Y
Positive opening of contacts on all contact blocks: 60A, 60B, 60C, 60D, 60E, 60G, 60L, 60P, 60S, 60T

Please contact our technical department for the list of approved products.

Features approved by UL

Electrical Ratings:	A300 pilot duty (720 VA, 120-300 Vac) Q300 pilot duty (69 VA, 125-250 Vdc)
Environmental Ratings:	Types 1, 4X, 12, 13

Please contact our technical department for the list of approved products.

Operating principle

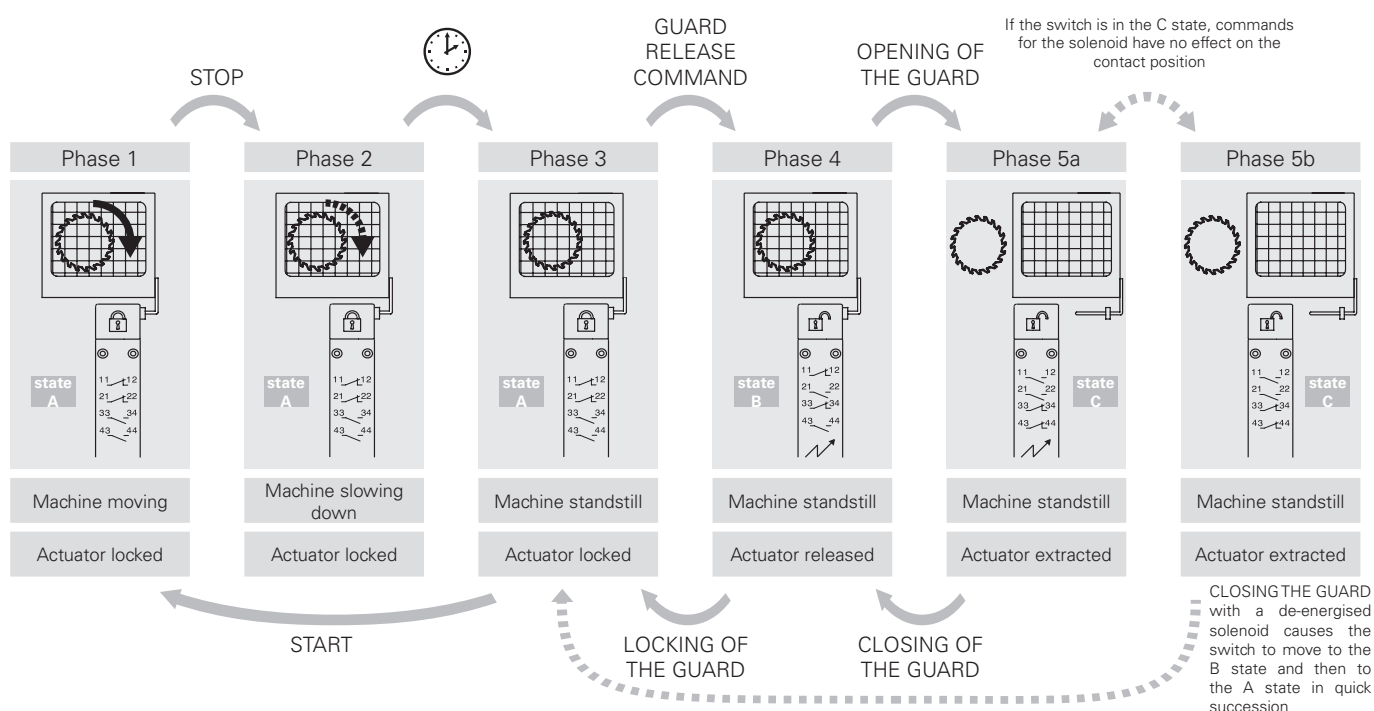
The operating principle of these safety switches allows three different operating states:

- state A:** with inserted and locked actuator
- state B:** with inserted but not locked actuator
- state C:** with extracted actuator

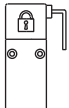
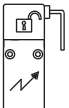
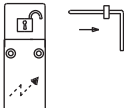
All or some of these states can be monitored by means of electrical NO contacts or NC contacts with positive opening by selecting the appropriate contact blocks. In detail, contact blocks that have electric contacts marked with the symbol of the solenoid () are switched in the transition between the state A and state B, while the electric contacts marked with the symbol of the actuator () are switched between state B and state C.

According to the operating principle, the actuator is locked when the solenoid is de-energised. The actuator is released by energising the solenoid (see example of operating phases).

Example of the operating phases

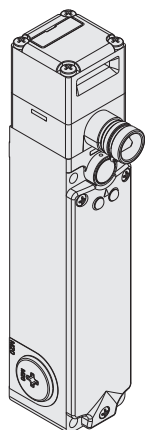


Contact positions related to switch states

Operating state	Operating principle		
	state A	state B	state C
Actuator	Inserted and locked	Inserted and released	Extracted
Solenoid	De-energised	Energised	-
			
FG 60A 1NO+1NC controlled by the solenoid 1NO+1NC controlled by the actuator			
FG 60B 2NC controlled by the solenoid 1NO+1NC controlled by the actuator			
FG 60C 3NC controlled by the solenoid 1NC controlled by the actuator			
FG 60D 1NO+1NC controlled by the solenoid 2NC controlled by the actuator			
FG 60E 1NO+2NC controlled by the solenoid 1NC controlled by the actuator			
FG 60G 2NC controlled by the solenoid 2NC controlled by the actuator			
FG 60L 2NO+1NC controlled by the solenoid 1NC controlled by the actuator			
FG 60P 1NC controlled by the solenoid 3NC controlled by the actuator			
FG 60S 1NC controlled by the solenoid 2NO+1NC controlled by the actuator			
FG 60T 1NC controlled by the solenoid 1NO+2NC controlled by the actuator			
FG 60X 1NO controlled by the solenoid 3NC controlled by the actuator			
FG 60Y 1NO controlled by the solenoid 1NO+2NC controlled by the actuator			
FG 61E 1NO controlled by the solenoid 2NO+1NC controlled by the actuator			
FG 61G 2NO controlled by the solenoid 1NO+1NC controlled by the actuator			
FG 61H 2NO controlled by the solenoid 2NC controlled by the actuator			
FG 61M 3NO controlled by the solenoid 1NC controlled by the actuator			

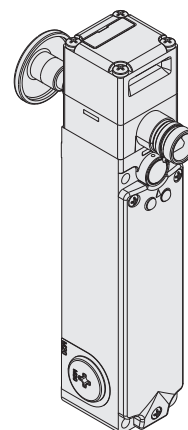


Contact type
L = slow action



Operating principle	Provided with key release with triangular key, without actuator			
Contact block	 			
60A L	FG 60AD5D0A-V70V90	 	1NO+1NC 1NO+1NC	
60B L	FG 60BD5D0A-V70V90	 	2NC 1NO+1NC	
60C L	FG 60CD5D0A-V70V90	 	3NC 1NC	
60D L	FG 60DD5D0A-V70V90	 	1NO+1NC 2NC	
60E L	FG 60ED5D0A-V70V90	 	1NO+2NC 1NC	
60G L	FG 60GD5D0A-V70V90	 	2NC 2NC	
60L L	FG 60LD5D0A-V70V90	 	2NO+1NC 1NC	
60P L	FG 60PD5D0A-V70V90	 	1NC 3NC	
60S L	FG 60SD5D0A-V70V90	 	1NC 2NO+1NC	
60T L	FG 60TD5D0A-V70V90	 	1NC 1NO+2NC	
60X L	FG 60XD5D0A-V70V90		1NO 3NC	
60Y L	FG 60YD5D0A-V70V90		1NO 1NO+2NC	
61E L	FG 61ED5D0A-V70V90		1NO 2NO+1NC	
61G L	FG 61GD5D0A-V70V90		2NO 1NO+1NC	
61H L	FG 61HD5D0A-V70V90		2NO 2NC	
61M L	FG 61MD5D0A-V70V90		3NO 1NC	
Actuating force	30 N (60 N )			
Travel diagrams	Page 170			

Contact type
L = slow action



Operating principle	Provided with key release with triangular key, escape release button, without actuator			
Contact block	 			
60A L	FG 60AD6D0A-V70V90	 	1NO+1NC 1NO+1NC	
60B L	FG 60BD6D0A-V70V90	 	2NC 1NO+1NC	
60C L	FG 60CD6D0A-V70V90	 	3NC 1NC	
60D L	FG 60DD6D0A-V70V90	 	1NO+1NC 2NC	
60E L	FG 60ED6D0A-V70V90	 	1NO+2NC 1NC	
60G L	FG 60GD6D0A-V70V90	 	2NC 2NC	
60L L	FG 60LD6D0A-V70V90	 	2NO+1NC 1NC	
60P L	FG 60PD6D0A-V70V90	 	1NC 3NC	
60S L	FG 60SD6D0A-V70V90	 	1NC 2NO+1NC	
60T L	FG 60TD6D0A-V70V90	 	1NC 1NO+2NC	
60X L	FG 60XD6D0A-V70V90		1NO 3NC	
60Y L	FG 60YD6D0A-V70V90		1NO 1NO+2NC	
61E L	FG 61ED6D0A-V70V90		1NO 2NO+1NC	
61G L	FG 61GD6D0A-V70V90		2NO 1NO+1NC	
61H L	FG 61HD6D0A-V70V90		2NO 2NC	
61M L	FG 61MD6D0A-V70V90		3NO 1NC	
Actuating force	30 N (60 N )			
Travel diagrams	Page 170			

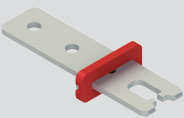
Legend:  With positive opening according to EN 60947-5-1,  interlock with lock monitoring acc. to EN ISO 14119

 Contacts activated by the actuator

 Contacts activated by the solenoid

Stainless steel actuators

IMPORTANT: These actuators can be used only with items of the FG series (e.g. FG 60AD5D0A-F20V70V90).
Low level of coding acc. to EN ISO 14119.

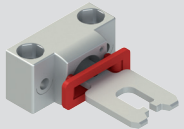
	Article	Description
	VF KEYF20	Straight actuator

	Article	Description
	VF KEYF21	Angled actuator

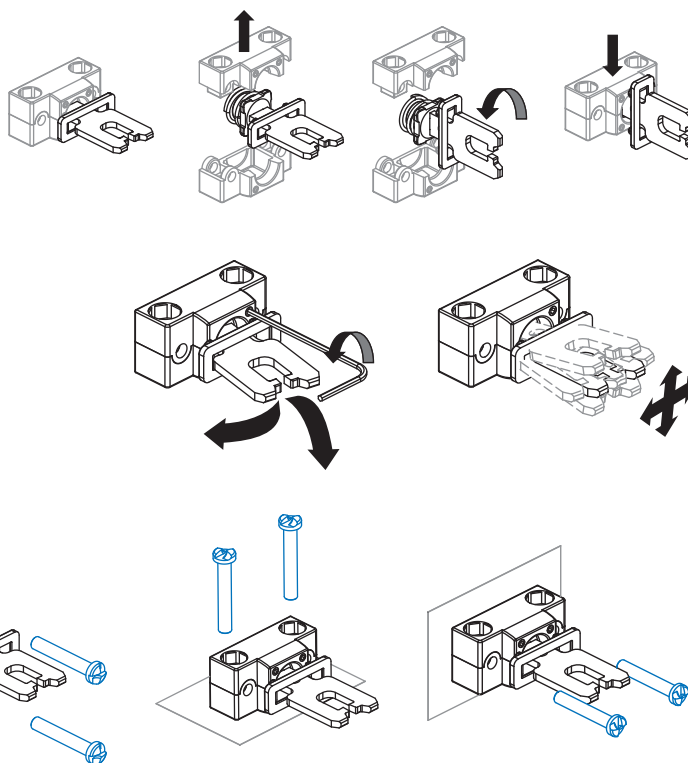
	Article	Description
	VF KEYF22	Actuator with rubber pads

Universal actuator VF KEYF28

IMPORTANT: These actuators can be used only with items of the FG series (e.g. FG 60AD5D0A-F28V70V90).
Low level of coding acc. to EN ISO 14119.

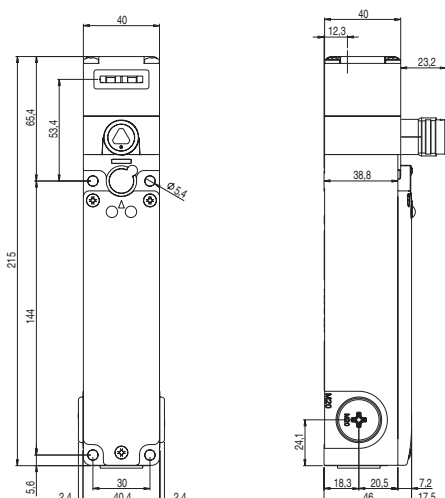
	Article	Description
	VF KEYF28	Universal actuator

Jointed actuator for guards with poor alignment, adjustable in two dimensions for small doors; can be mounted in various positions.
The metal fixing body has two pairs of bore holes; it is provided for rotating the working plane of the actuator by 90°.

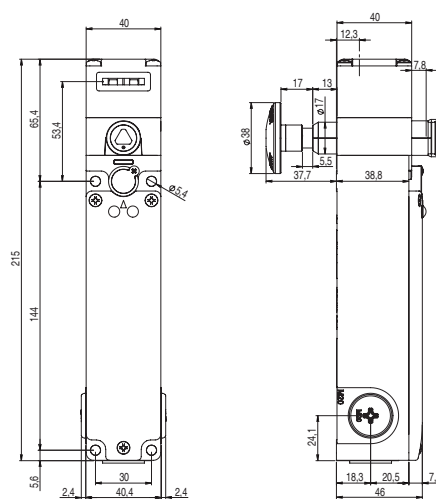


Dimensional drawings

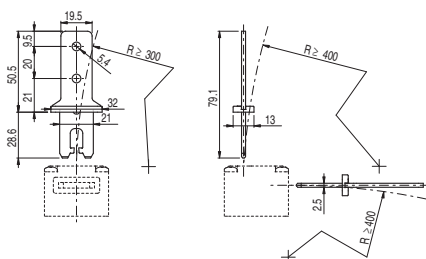
Switch FG 6••D5D••-V70V90
With auxiliary key release
with triangular key



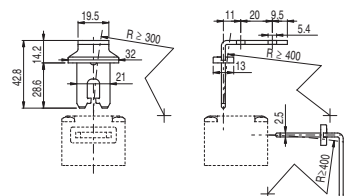
Switch FG 6••D6D••-V70V90
With auxiliary key release with triangular key and
escape release button



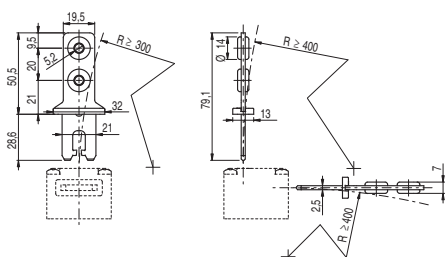
Actuator VF KEYF20



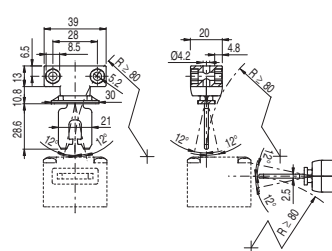
Actuator VF KEYF21



Actuator VF KEYF22

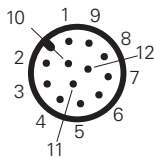


Actuator VF KEYF28



Wiring diagram for M12 connectors

M12 connector, 12-pole



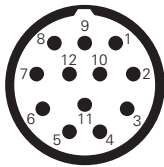
Contact block	60A	2NO+2NC	Contact block	60B	1NO+3NC	Contact block	60C	4NC	Contact block	60D	1NO+3NC	Contact block	60E	1NO+3NC	Contact block	60G	4NC	Contact block	60L	2NO+2NC	Contact block	60P	4NC	Contact block	60S	2NO+2NC	Contact block	60T	1NO+3NC
Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.	
A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2	
NC	3-4		NC	3-4		NC	3-4		NO	3-4		NC	3-4		NC	3-4		NC	3-4		NC	3-4		NC	3-4		NC	3-4	
NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6	
NO	7-8		NC	7-8		NC	7-8		NC	7-8		NC	7-8		NC	7-8		NO	7-8		NC	7-8		NO	7-8		NO	7-8	
NO	9-10		NO	9-10		NC	9-10		NC	9-10		NO	9-10		NC	9-10		NO	9-10		NC	9-10		NO	9-10		NO	9-10	

Contact block	60X	1NO+3NC	Contact block	60Y	2NO+2NC	Contact block	61E	3NO+1NC	Contact block	61G	3NO+1NC	Contact block	61H	2NO+2NC	Contact block	61M	3NO+1NC
Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.	
A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2	
NO	3-4		NC	3-4		NO	3-4		NO	3-4		NC	3-4		NO	3-4	
NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6	
NC	7-8		NO	7-8		NO	7-8		NO	7-8		NO	7-8		NO	7-8	
NC	9-10		NO	9-10		NO	9-10		NO	9-10		NO	9-10		NO	9-10	

Note: the wires connected to pins 11 and 12 of the M12 connector can be used to activate the LEDs in FG series configurations with freely connectable LEDs.

Wiring diagram for M23 connectors

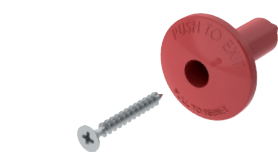
M23 connector, 12-pole



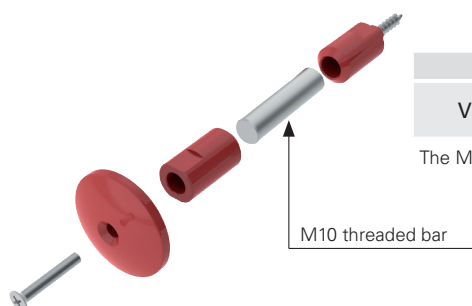
Contact block	60A	2NO+2NC	Contact block	60B	1NO+3NC	Contact block	60C	4NC	Contact block	60D	1NO+3NC	Contact block	60E	1NO+3NC	Contact block	60G	4NC	Contact block	60L	2NO+2NC	Contact block	60P	4NC	Contact block	60S	2NO+2NC	Contact block	60T	1NO+3NC
Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.	
A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2	
NC	3-4		NC	3-4		NC	3-4		NO	3-4		NC	3-4		NC	3-4		NC	3-4		NC	3-4		NC	3-4		NC	3-4	
NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6	
NO	7-8		NC	7-8		NC	7-8		NC	7-8		NC	7-8		NC	7-8		NO	7-8		NC	7-8		NO	7-8		NO	7-8	
NO	9-10		NO	9-10		NC	9-10		NC	9-10		NO	9-10		NC	9-10		NO	9-10		NC	9-10		NO	9-10		NO	9-10	
ground	11		ground	11		ground	11		ground	11		ground	11		ground	11		ground	11		ground	11		ground	11		ground	11	

Contact block	60X	1NO+3NC	Contact block	60Y	2NO+2NC	Contact block	61E	3NO+1NC	Contact block	61G	3NO+1NC	Contact block	61H	2NO+2NC	Contact block	61M	3NO+1NC
Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.		Contacts	Pin no.	
A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2		A1-A2	1-2	
NO	3-4		NC	3-4		NO	3-4		NO	3-4		NC	3-4		NO	3-4	
NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6		NC	5-6	
NC	7-8		NO	7-8		NO	7-8		NO	7-8		NO	7-8		NO	7-8	
NC	9-10		NO	9-10		NO	9-10		NO	9-10		NO	9-10		NO	9-10	
ground	11		ground	11		ground	11		ground	11		ground	11		ground	11	

Release button



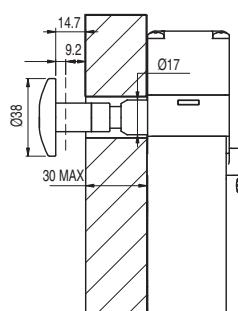
Article	Description
VF FG-LP15	Technopolymer release button for max. 15 mm wall thickness, supplied with screw
VF FG-LP30	Technopolymer release button for max. 30 mm wall thickness, supplied with screw
VF FG-LP40	Technopolymer release button for max. 40 mm wall thickness, supplied with screw
VF FG-LP60	Metal release button for max. 60 mm wall thickness, supplied with screw



Article	Description
VF FG-LPRG	Metal release button for wall thickness from 60 to 500 mm, supplied with 2 supports and 2 screws, without M10 threaded bar

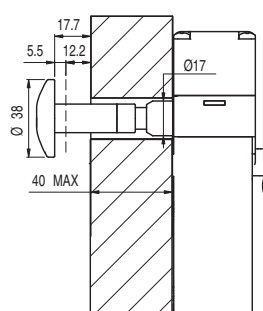
The M10 bar can be supplied in zinc-plated steel with 1 m length. Article: AC 8512.

Other release button lengths



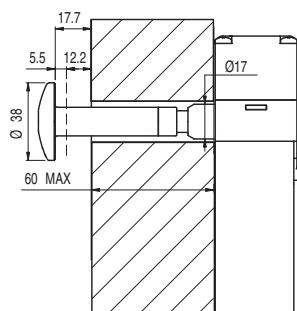
-LP30

For wall thickness
15 ... 30 mm



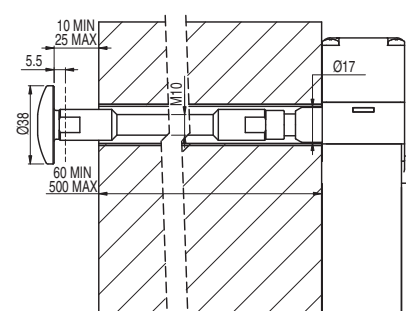
-LP40

For wall thickness
30 ... 40 mm



-LP60

For wall thickness
40 ... 60 mm



-LPRG

For wall thickness
60 ... 500 mm

-LP30, -LP40, -LP60:

- Avoid bending and twisting the release button.
- To guarantee correct device operation, keep a distance of 10 ... 25 mm between the wall and the release button.
- The actuation path of the release button must always be kept clean. Dirt or chemical products could compromise the device operation.
- Periodically check the device for proper function.

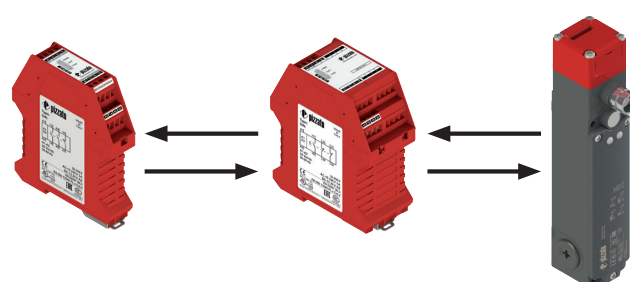
-LPRG:

- Avoid bending and twisting the release button.
- On the inside of the wall, use a bushing or a tube with an inner diameter of 18 ± 0.5 mm as a guide.
- Guide in the M10 threaded rod in such a way so as to prevent bending. The M10 threaded rod is not supplied with the device.
- Use medium-strength thread locker to secure the threaded rod.
- Do not exceed an overall length of 500 mm between the release button and the switch.
- To guarantee correct device operation, keep a distance of 10 ... 25 mm between the wall and the release button.
- The actuation path of the release button must always be kept clean. Dirt or chemical products could compromise the device operation.
- Periodically check the device for proper function.

Safety modules

Pizzato Elettrica offers its customers a wide range of safety modules. These were developed taking into consideration typical problems encountered during the monitoring of safety switches under actual operating conditions. Safety modules with instantaneous or delayed contacts for emergency circuits of type 0 (immediate stop) or type 1 (controlled stop).

Safety switches with solenoid of the FG series can be connected to safety modules for the realization of safety circuits up to PL e acc. to EN ISO 13849. For technical information or wiring diagrams, please contact our technical office.





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