









K 48 Vdc 0.75 A (36 W) (reduced actuating force E28) only
 J 24 Vdc 1.5 A (36 W) (reduced actuating force E28 only)

	Technical data			
	Housing Made of glass-reinforced polymer, self-extinguis and with double insulation: Three knock-out threaded conduit entries: Protection degree:	 ishing, shock-proof thermoplastic resin M20 x1.5 IP67 according to EN 60529 with cable gland having equal or higher protection degree -25°C +50°C 50° C on request 50,000 operations cycles any 100,000 for NC contacts type 1 according to EN ISO 14119 see page 133 		
	General data Ambient temperature: Version for operation in ambient temperature from -40°C to +50 Mechanical endurance: Assembling position: Safety parameters B _{10D} : Mechanical interlock, not coded: Driving torque for installation:			
Main data	Cross section of the conductors (flexible cop Contact blocks 63, 64:	per wire) min. 1 x 0.34 mm ² (1 x AWG 22) max. 2 x 1.5 mm ² (2 x AWG 16)		
Different actuating force versions	Solenoid			
 Versions with adjusting screw Polymer housing, with one or two conduit entries Protection degree IP67 	Rated operational voltage (Ue) and current (Ie):	24 Vdc ±10%; 4.2 A (100 W) 24 Vdc ±10%; 1.5 A (36 W) 48 Vdc ±10%; 2.1 A (100 W) 48 Vdc ±10%; 0.75 A (36 W) 230 Vac ±10%; 0.5 A (115 W)		
Quality marks: C C C C C C C C C C C C C C C C C C C	Solenoid protection 24 Vdc (4.2 A): Solenoid protection 24 Vdc (1.5 A): Solenoid protection 48 Vdc (2.1 A): Solenoid protection 48 Vdc (0.75 A): Solenoid protection 230 Vac (0.5 A): Power supply time: Time without power supply: Max operating frequency:	fuse 5 A type F fuse 2 A type F fuse 2.5 A type F fuse 1 A type F fuse 0.8 A, type F min. 0.2 s, max 0.5 s min. 30 s 118 operations cycles/hour		
Approval EAC: RU C-IT.AД35.B.00454	In conformity with standards: EN 60947-5-1 JEC 60947-5-1 EN 81-20 EN 81-	50 UL 508 CSA 22 2 No. 14		

In conformity with requirements requested by:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, Lift Directive 2014/33/EU. Positive contact opening in conformity with standards:

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

Installation for safety applications:

Use only switches marked with the symbol Θ . 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 81-20 par. 5.11.2.2.1. The switch must be actuated with at least up to the positive opening travel shown in the travels diagrams on page 134. The switch must be actuated at least with the positive opening force, shown in brackets, underneath each article, near the value of the actuating force.

🛆 If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on pages 131 to 138.

Electrical data		Utilization categories			
Thermal current (I _{th}): Rated insulation voltage (U,): Rated impulse withstand voltage (U,):	10 A 500 Vac 600 Vdc 6 kV	Alternate U (V) I (A)	e current: . 250 6	AC15 (50. 400 4	60 Hz) 500 1
Conditional shot circuit current: Protection against short circuits: Pollution degree:	1000 A according to EN 60947-5-1 fuse 10 A 500 V type aM 3	Ďirect cu U (V) I (A)	irrent: DC 24 6	13 125 1.1	250 0.4

Data type approved by UL

Utilization categories Q300 (69 VA, 125-250 Vdc) A600 (720 VA, 120-600 Vac) Data of the housing type 1, 4X "indoor use only", 12, 13 For all contact blocks use 60 or 75 °C copper (Cu) conductor and wire size No. 12-14 AWG. Terminal tightening torque of 7.1 lb in (0.8 Nm). In conformity with standard: UL 508, CSA 22.2 No.14.

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

Introduction



When the FT series safety switches with reset are operated they remain switched and they reset electrically through the integrated solenoid. Thanks to this feature it's possible to remote reset the switch without being physically near it. They are available with different actuators and are adapt to many applications, particularly to the lift, the over-speed governor and generally to the safety field. Some items can also be supplied with the manual reset.

According to EN 81-20 and EN 81-50



- · Safaty contacts according to EN 60947-5-1, encl. K.
- Protection degree higher than IP4x. All switches are in compliance with the requirements set by the new standards on safety contacts.

On request FT series switches can be supplied

with a reduced actuating

Reduced actuating force (E26/E28)



force.	
Actuator	Force
A6,	3,5 N (25 N 🕀)
01, 12, 13, 14, 15, 16	5,5 N (25 N 🔿)
02, 05	3.6 N (25 N 🕀)
07	2.1 N (25 N 🕀)
30, 31, 38, 51, 52, 54, 56	0.06 Nm (0.25 Nm ↔)

Protection degree IP 67

These series switches are all IP67 rated.

Safety lever



The adjustable lever code 56 (and variants) is supplied with an indentation which blocks the lever slipping in case of fixing screw release.

Adjustment system version (C, D, E, F housing)



Pizzato Elettrica introduces a new integrated adjustment system designed purposely for applications on over-speed devices.

The system allows a fine and sensitive adjustment of the switch position along its vertical axis. Characteristics:

- Easy installation and adjustment
- Accurate vertical adjustment
- Wide adjustment travel (up to 4 mm)
- Unlosable components

Operation:

A Make a hole in the fixing plate to insert the adjusting pin on the back of the switch. Apply the switch to the over-speed device without blocking the two fixing screws.

B Adjust the switch position by the screw on the front.

C Finally lock the switch body to the over-speed device.

Conduit entries



Switches with conduit entries in several directions are available, for applications also in restricted

Overturning levers



possible lt's to fasten the lever on switches on straight or reverse side, maintaining the positive coupling.

In this way it is possible to

Adjustable levers

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In switches with revolving lever it is possible to adjust the

lever with 10° steps for the whole 360° range. The positive movement transmission is always guaranteed thanks to the particular geometrical coupling between the lever and the revolving shaft as prescribed for safety applications by the German standard BG-GS-ET-15.

Rotating heads

In all switches, it is possible to rotate the head in 90° steps.











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

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🔶 pizzato

IMPORTANT

marked with symbol Θ .

For safety applications: join only switches and actuators

Position switches with roller lever without actuator



Special loose actuators

IMPORTANT: These loose actuators can be used with items of series FT only.

Ø 40 mm rubber rollers

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⁽⁴⁾ The actuator cannot be oriented to inside direction because it will mechanically interfere with the switch head.

Items with code on the $\ensuremath{\textbf{green}}$ background are available in stock

VF LE56-R27 🔶

Accessories See page 127

All measures in the drawings are in mm

Notes



