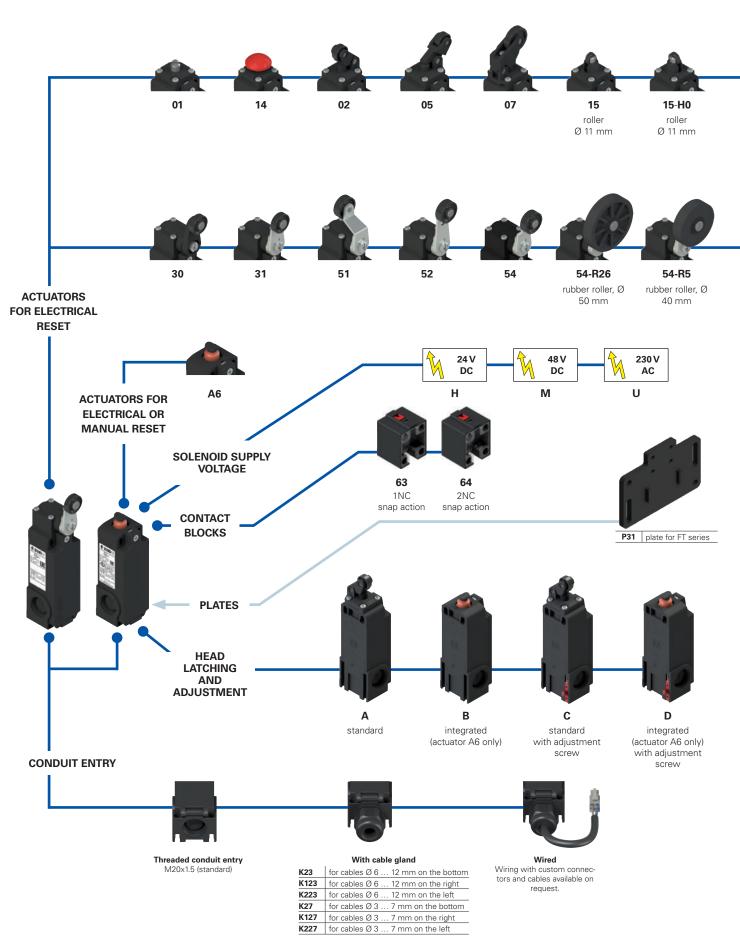
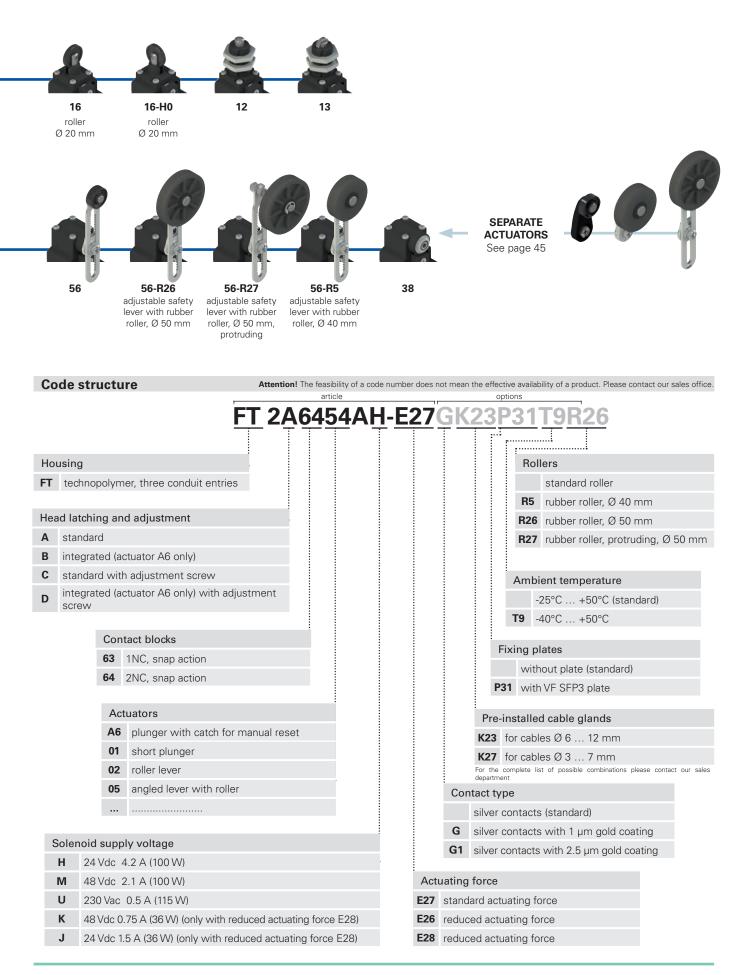


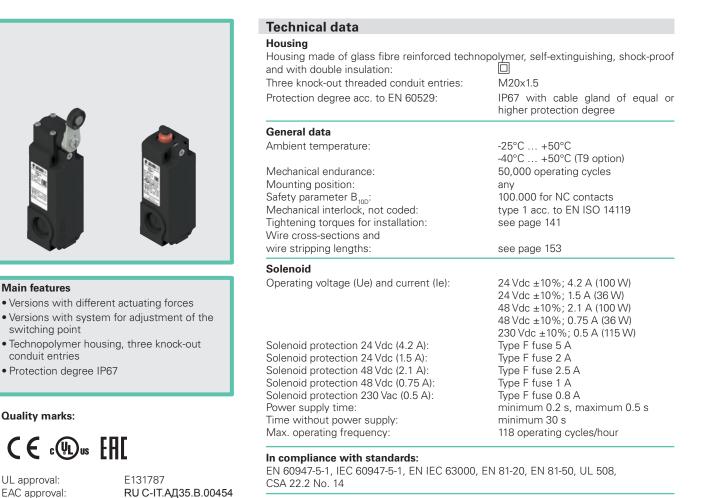
5











Compliance with the requirements of:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, Lift Directive 2014/33/EU, RoHS Directive 2011/65/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 O next to the product code. Always connect the safety circuit to the **NC contacts** (normally closed contacts: 11-12, 21-22 or 31-32) as stated in **standard EN 81-20 par. 5.11.2.2.1**. Actuate the switch **at least up to the positive opening travel** shown in the travel diagrams on page 142. Actuate the switch **at least with the positive opening force**, reported in brackets below each article, next to the actuating force value.

 $\Delta$  If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on pages 139 to 146.

Electrical data		Utilization category			
Thermal current (I,,):	10 A	Alternating current: AC15 (50 60 Hz)			
Rated insulation voltage (U <sub>i</sub> ):	500 Vac 600 Vdc	U_ (V)	250	400	500
Rated impulse withstand voltage (U <sub>imp</sub> ):	6 kV	I (A)	6	4	1
Conditional short circuit current:	1000 A acc. to EN 60947-5-1	Direct cu	Direct current: DC13		
Protection against short circuits:	type aM fuse 10 A 500 V	U <sub>e</sub> (V)	24	125	250
Pollution degree:	3	l <sub>e</sub> (A)	3	0.55	0.3

### Features approved by UL

Electrical Ratings: Q300 pilot duty (69 VA, 125-250 V dc) A600 pilot duty (720 VA, 120-600 V ac)

Environmental Ratings: Types 1, 4X, 12, 13

For all contact blocks use 60 or 75°C copper (Cu) conductors, rigid or flexible, wire size 12, 14 AWG. Tightening torque for terminal screws of 7.1 lb in (0.8 Nm).

The hub is to be connected to the conduit before the hub is connected to the enclosure.

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

## Introduction



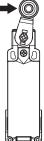
The FT series safety switches with reset retain their switching state when operated: their reset occurs electrically through the integrated solenoid. Thanks to this special feature, the switch can be remotely reset without having to go physically near it. Available with multiple actuators, they are able to adapt to a wide variety of applications, particularly in the area of lifts, speed limiters and, more generally, in the world of security. Some models may also be manually reset.

#### Compliant with EN 81-20 and EN 81-50



· Safety contacts in compliance with EN 60947-5-1, annex K. Protection degree higher than IP4x. All switches meet requirements laid down by the new standards for safety contacts

### Reduced actuating force (E26/E28)



FT series switches can be supplied with reduced actuating force on request:

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 ☉)
	A6 01, 12, 13, 14, 15, 16 02, 05 07 30, 31, 38, 51,

### **Protection degree IP67**

All switches these series have protection degree IP67.

of

## Adjustable safety lever



10

Adjustable levers

The adjustable lever code 56 (and variants) is provided with a notching that prevents the sliding also in case the fastening screw becomes loose.

switches

swivelling lever, the

lever can be adjusted

in 10° steps over the

entire 360° range. The

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.

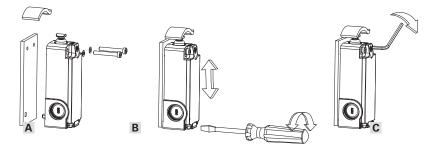
For

positive

with

movement

### Versions with adjustment system (housings C, D, E, F)



Pizzato Elettrica introduces a new adjustment system, built into the switch, designed specifically for speed limiter applications.

This system allows very fine and sensitive adjustment of the switch position along the vertical axis.

### Features:

- ease of installation and adjustment;
- ability to carry out highly precise vertical adjustment;
- broad adjustment range (up to 4mm);
- captive elements.

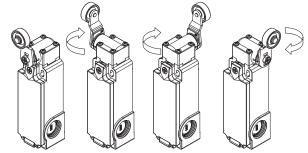
## Operation:

A Make a hole in the switch fixing plate, for insertion of the adjustment pin on the back of the switch itself. Insert switch to speed limiter, without obstructing the two fixing screws.

- B Adjust the position of the switch, using the screw on the front.
- **C** Finally, secure the switch body to the speed limiter.

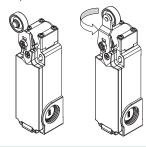
## Head with variable orientation

The head of all switches is adjustable in 90° steps.



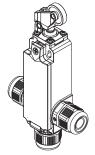
### **Reversible levers**

For switches with swivelling lever, the lever can be fastened on straight or reverse side maintaining the positive coupling. In this way two different working planes of the lever are possible.

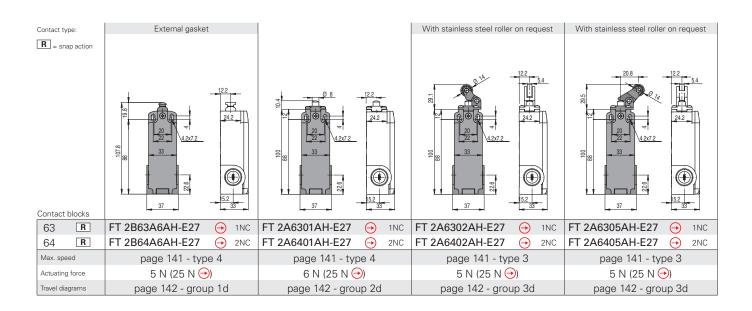


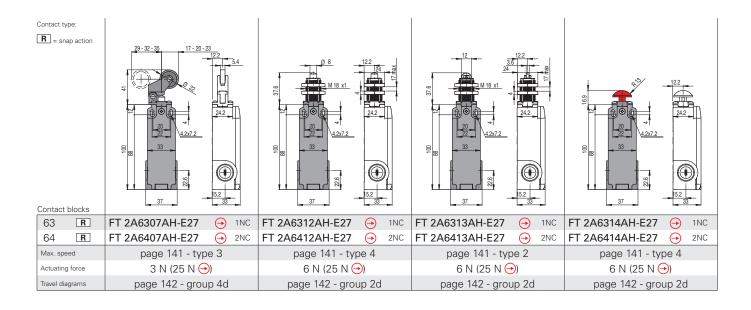
## **Cable outlets**

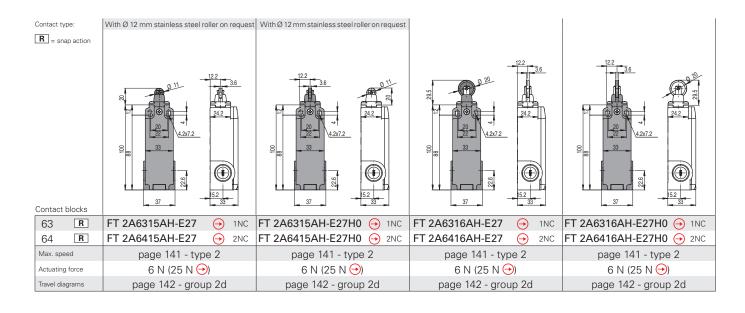
Switches available with cable outlets in various directions, for use in the most confined of spaces.











All values in the drawings are in mm

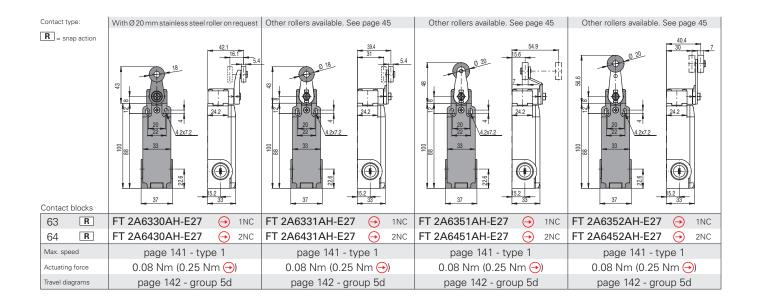
Accessories See page 135

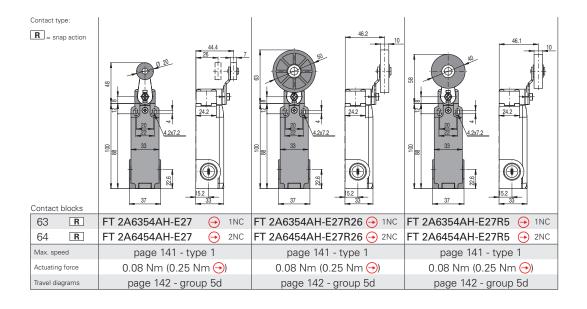
→ The 2D and 3D files are available at www.pizzato.com

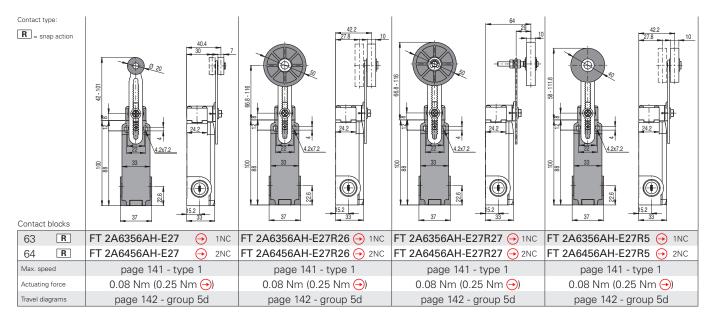
5



5







All values in the drawings are in mm

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Accessories See page 135
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→ The 2D and 3D files are available at www.pizzato.com

# Position switches with swivelling lever without actuator

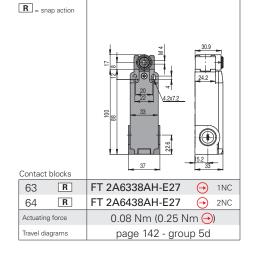
#### Contact type:

5

#### IMPORTANT

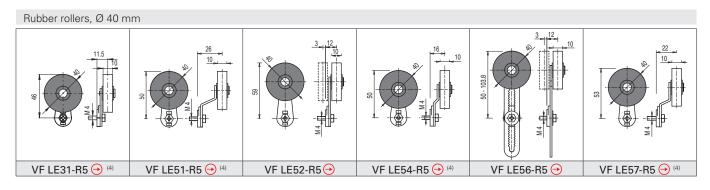
For safety applications: join only switches and actuators marked with symbol  $\bigcirc$  next to the product code.

For more information about safety applications see details on page 139.



### **Special separate actuators**

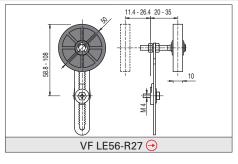
IMPORTANT: These separate actuators can be used only with items of the FT series.



#### Rubber rollers, Ø 50 mm

			808-108 	
VF LE51-R26 🔶 (4)	VF LE52-R26 🔶 (4)	VF LE54-R26 🔶 (4)	VF LE56-R26 🔶	VF LE57-R26 🔶 (4)

## Protruding rubber rollers, Ø 50 mm



- <sup>(4)</sup> The actuator cannot be rotated to the inside because it will hit the switch head upon actuation.

