

Переключатели с электрическим сбросом FT

Технические характеристики

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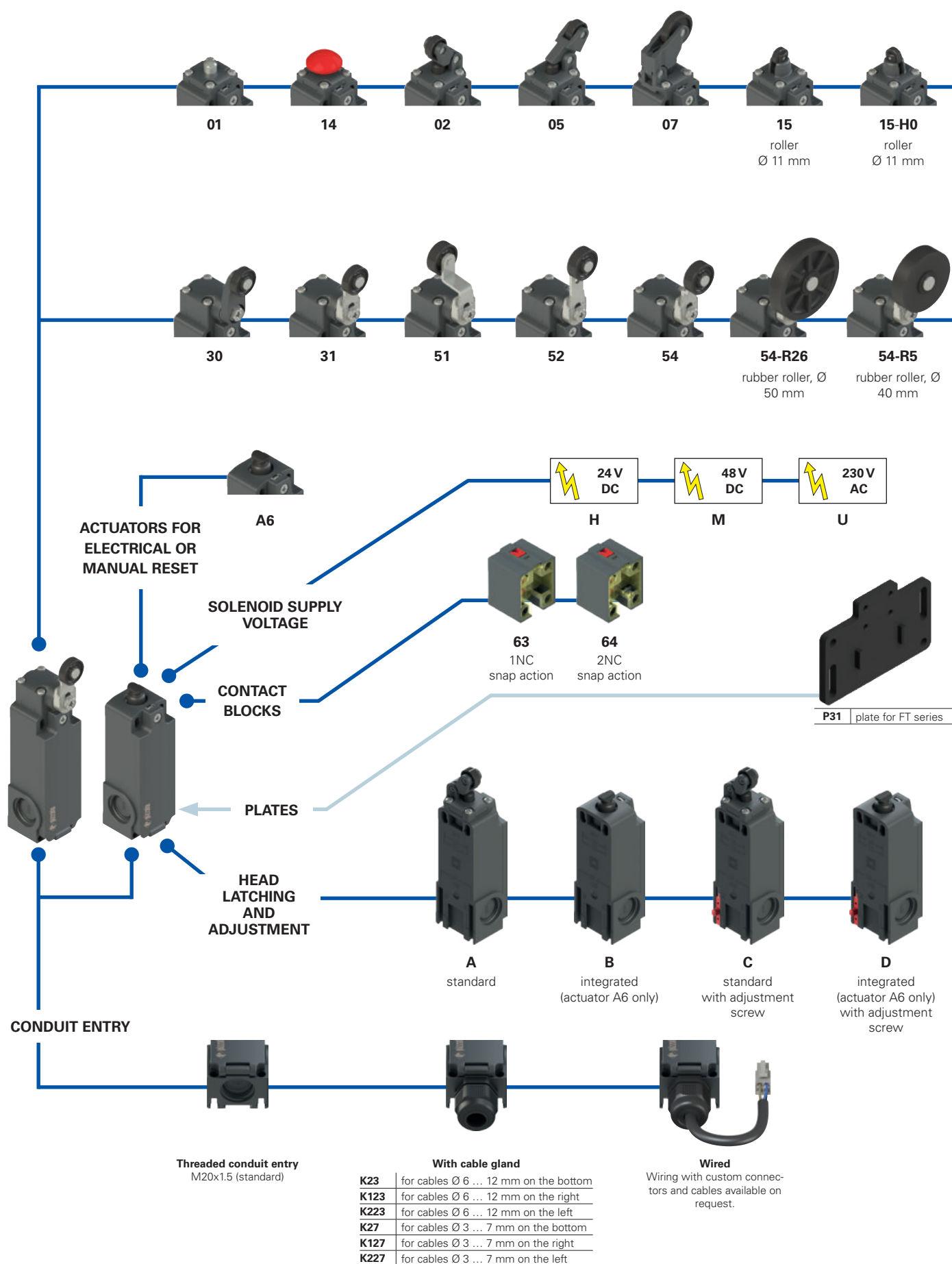
Узбекистан +998(71)205-18-59

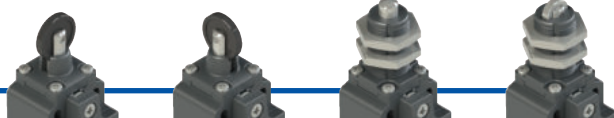
Киргизия +996(312)96-26-47

эл.почта: poz@nt-rt.ru || сайт: <https://pizzato.nt-rt.ru/>

FT series switches with electrical reset

Selection diagram



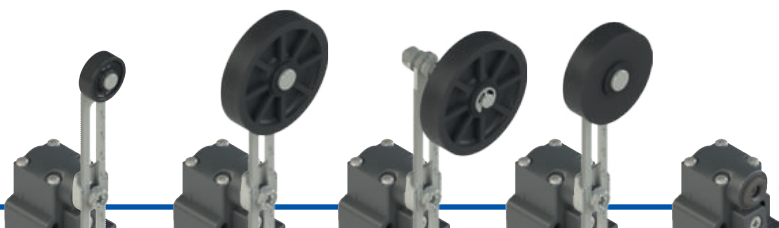


16
roller
Ø 20 mm

16-H0
roller
Ø 20 mm

12

13



56

56-R26

56-R27

56-R5

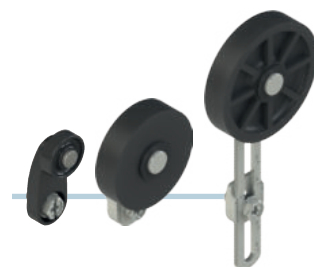
38

adjustable safety
lever with rubber
roller, Ø 50 mm

adjustable safety
lever with rubber
roller, Ø 50 mm,
protruding

adjustable safety
lever with rubber
roller, Ø 40 mm

**SEPARATE
ACTUATORS**
See page 45



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
FT 2A6454AH-E27 GK23P31T9R26

Housing

FT technopolymer, three conduit entries

Head latching and adjustment

A	standard
B	integrated (actuator A6 only)
C	standard with adjustment screw
D	integrated (actuator A6 only) with adjustment screw

Contact block

63	1NC, snap action
64	2NC, snap action

Actuators

A6	plunger with catch for manual reset
01	short plunger
02	roller lever
05	angled lever with roller
...	...

Solenoid supply voltage

H	24 Vdc 4.2 A (100 W)
M	48 Vdc 2.1 A (100 W)
U	230 Vac 0.5 A (115 W)
K	48 Vdc 0.75 A (36 W) (only with reduced actuating force E28)
J	24 Vdc 1.5 A (36 W) (only with reduced actuating force E28)

Rollers

	standard roller
R5	rubber roller, Ø 40 mm
R26	rubber roller, Ø 50 mm
R27	rubber roller, protruding, Ø 50 mm

Ambient temperature

	-25°C ... +50°C (standard)
T9	-40°C ... +50°C

Fixing plates

	without plate (standard)
P31	with VF SFP3 plate

Pre-installed cable glands

K23	for cables Ø 6 ... 12 mm
K27	for cables Ø 3 ... 7 mm

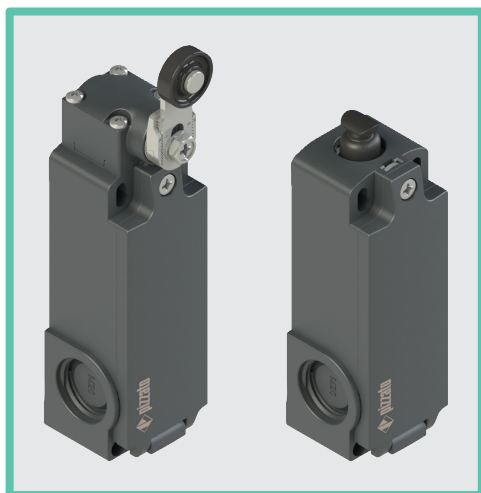
For the complete list of possible combinations please contact our sales department.

Contact type

	silver contacts (standard)
G	silver contacts with 1 µm gold coating
G1	silver contacts with 2.5 µm gold coating

Actuating force

E27	standard actuating force
E26	reduced actuating force
E28	reduced actuating force



Main features

- Versions with different actuating forces
- Versions with system for adjustment of the switching point
- Technopolymer housing, three knock-out conduit entries
- Protection degree IP67

Quality marks:



UL approval: E131787
EAC approval: RU C-IT.YT03.B.00035/19

Technical data

Housing

Housing made of glass fibre reinforced technopolymer, self-extinguishing, shock-proof and with double insulation: 
Three knock-out threaded conduit entries: M20x1.5
Protection degree acc. to EN 60529: IP67 with cable gland of equal or higher protection degree

General data

Ambient temperature: -25°C ... +50°C
-40°C ... +50°C (T9 option)
Mechanical endurance: 50,000 operating cycles
Mounting position: any
Safety parameter B_{10D} : 100.000 for NC contacts
Mechanical interlock, not coded: type 1 acc. to EN ISO 14119
Tightening torques for installation: see page 155
Wire cross-sections and wire stripping lengths: see page 169

Solenoid

Operating voltage (U_e) and current (I_e):
24 Vdc $\pm 10\%$; 4.2 A (100 W)
24 Vdc $\pm 10\%$; 1.5 A (36 W)
48 Vdc $\pm 10\%$; 2.1 A (100 W)
48 Vdc $\pm 10\%$; 0.75 A (36 W)
230 Vac $\pm 10\%$; 0.5 A (115 W)
Power supply time: minimum 0.2 s, maximum 0.5 s
Time without power supply: minimum 30 s
Max. operating frequency: 118 operating cycles/hour

In compliance with standards:

EN 60947-5-1, IEC 60947-5-1, EN IEC 63000, EN 81-20, EN 81-50, UL 508, CSA 22.2 No. 14

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 beside 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 156. Actuate the switch **at least with the positive opening force**, reported in brackets below each article, next to the actuating force value.

 **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			
Thermal current (I_{th}):	10 A	Alternating current: AC15 (50 ... 60 Hz)			
Rated insulation voltage (U_i):	500 Vac 600 Vdc	U_e (V)	250	400	500
Rated impulse withstand voltage (U_{imp}):	6 kV	I_e (A)	6	4	1
Conditional short circuit current:	1000 A acc. to EN 60947-5-1	Direct current: DC13			
Protection against short circuits:	type aM fuse 10 A 500 V	U_e (V)	24	125	250
Pollution degree:	3	I_e (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.

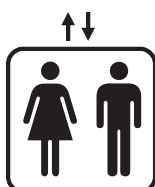
Please contact our technical department for the list of approved products.

Introduction



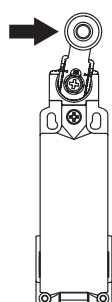
The FT series safety switches with reset retain their switching state when operated: their reset occurs electrically through the integrated solenoid. Thanks to this special feature, the switch can be remotely reset without having to go physically near it. Available with multiple actuators, they are able 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:

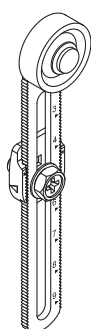
Actuator	Force
A6	3.5 N (25 N ⊖)
01, 12, 13, 14, 15, 16	5.5 N (25 N ⊖)
02, 05	3.6 N (25 N ⊖)
07	2.1 N (25 N ⊖)
30, 31, 38, 51, 52, 54, 56	0.06 Nm (0.25 Nm ⊖)

Protection degree IP67

All switches of these series have protection degree IP67.

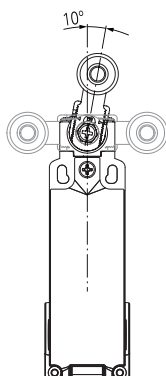
IP67

Adjustable safety lever



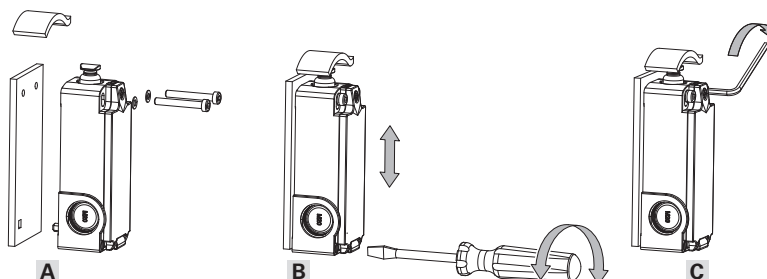
The adjustable lever code 56 (and variants) is provided with a notching that prevents the sliding also in case the fastening screw becomes loose.

Adjustable levers



For switches with swivelling lever, the lever can be adjusted in 10° steps over the entire 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.

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:

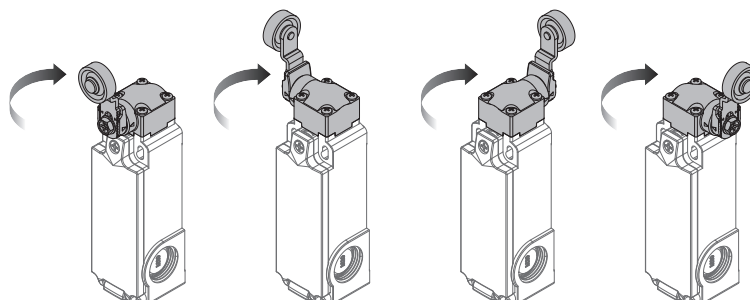
- easy to install and simple to operate;
- ability to carry out highly precise vertical adjustment;
- broad adjustment range (up to 4mm);
- captive elements.

Operation:

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

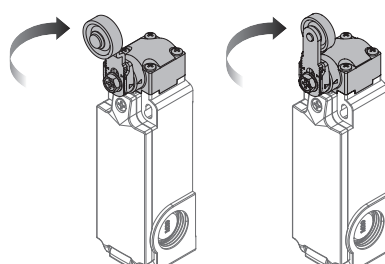
Head with variable orientation

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



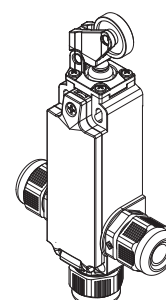
Reversible levers

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

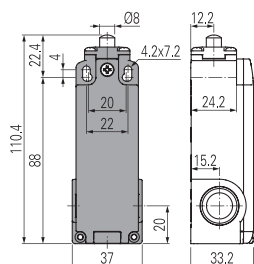
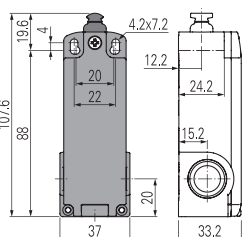
Switches available with cable outlets in various directions, for use in the most confined of spaces.



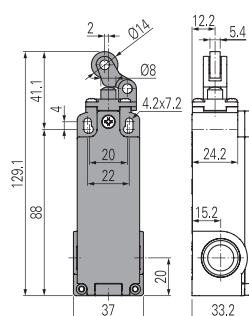
Contact type:

R = snap action

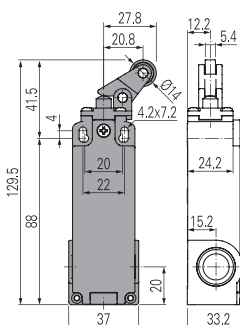
External gasket



With stainless steel roller on request



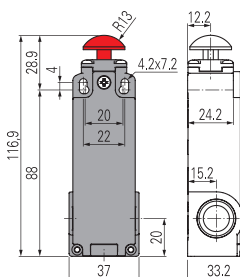
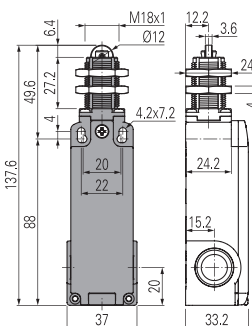
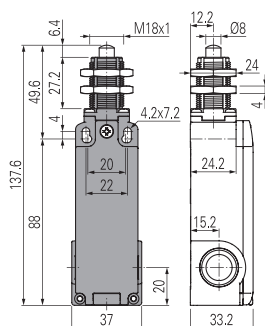
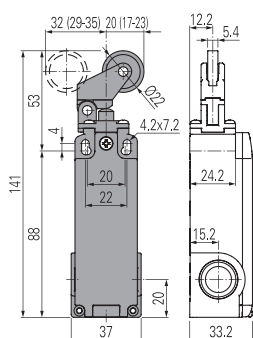
With stainless steel roller on request



Contact block

63 R	FT 2B63A6AH-E27	1NC	FT 2A6301AH-E27	1NC	FT 2A6302AH-E27	1NC	FT 2A6305AH-E27	1NC
64 R	FT 2B64A6AH-E27	2NC	FT 2A6401AH-E27	2NC	FT 2A6402AH-E27	2NC	FT 2A6405AH-E27	2NC
Max. speed	page 155 - type 4		page 155 - type 4		page 155 - type 3		page 155 - type 3	
Actuating force	5 N (25 N)		6 N (25 N)		5 N (25 N)		5 N (25 N)	
Travel diagrams	page 156 - group 1d		page 156 - group 2d		page 156 - group 3d		page 156 - group 3d	

Contact type:

R = snap action

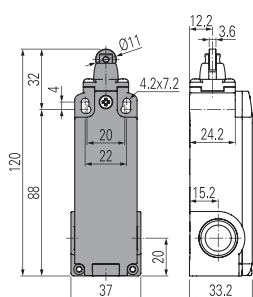
Contact block

63 R	FT 2A6307AH-E27	1NC	FT 2A6312AH-E27	1NC	FT 2A6313AH-E27	1NC	FT 2A6314AH-E27	1NC
64 R	FT 2A6407AH-E27	2NC	FT 2A6412AH-E27	2NC	FT 2A6413AH-E27	2NC	FT 2A6414AH-E27	2NC
Max. speed	page 155 - type 3		page 155 - type 4		page 155 - type 2		page 155 - type 4	
Actuating force	3 N (25 N)		6 N (25 N)		6 N (25 N)		6 N (25 N)	
Travel diagrams	page 156 - group 4d		page 156 - group 2d		page 156 - group 2d		page 156 - group 2d	

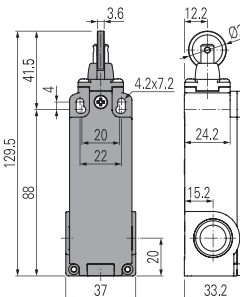
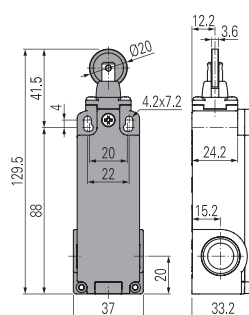
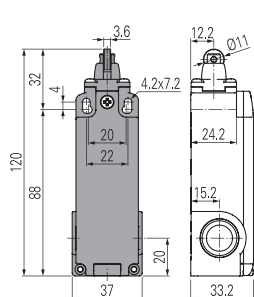
Contact type:

R = snap action

With Ø 12 mm stainless steel roller on request



With Ø 12 mm stainless steel roller on request



Contact block

63 R	FT 2A6315AH-E27	1NC	FT 2A6315AH-E27H0	1NC	FT 2A6316AH-E27	1NC	FT 2A6316AH-E27H0	1NC
64 R	FT 2A6415AH-E27	2NC	FT 2A6415AH-E27H0	2NC	FT 2A6416AH-E27	2NC	FT 2A6416AH-E27H0	2NC
Max. speed	page 155 - type 2		page 155 - type 2		page 155 - type 2		page 155 - type 2	
Actuating force	6 N (25 N)		6 N (25 N)		6 N (25 N)		6 N (25 N)	
Travel diagrams	page 156 - group 2d		page 156 - group 2d		page 156 - group 2d		page 156 - group 2d	

All values in the drawings are in mm



Contact type:		With Ø20 mm stainless steel roller on request		Other rollers available. See page 45		Other rollers available. See page 45		Other rollers available. See page 45	
R = snap action									
Contact block									
63	R	FT 2A6330AH-E27	➔ 1NC	FT 2A6331AH-E27	➔ 1NC	FT 2A6351AH-E27	➔ 1NC	FT 2A6352AH-E27	➔ 1NC
64	R	FT 2A6430AH-E27	➔ 2NC	FT 2A6431AH-E27	➔ 2NC	FT 2A6451AH-E27	➔ 2NC	FT 2A6452AH-E27	➔ 2NC
Max. speed		page 155 - type 1		page 155 - type 1		page 155 - type 1		page 155 - type 1	
Actuating force		0.08 Nm (0.25 Nm ➔)		0.08 Nm (0.25 Nm ➔)		0.08 Nm (0.25 Nm ➔)		0.08 Nm (0.25 Nm ➔)	
Travel diagrams		page 156 - group 5d		page 156 - group 5d		page 156 - group 5d		page 156 - group 5d	

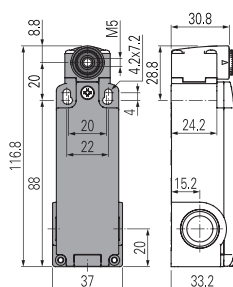
Contact type:					
R = snap action					
Contact block					
63	R	FT 2A6354AH-E27	➔ 1NC	FT 2A6354AH-E27R26	➔ 1NC
64	R	FT 2A6454AH-E27	➔ 2NC	FT 2A6454AH-E27R26	➔ 2NC
Max. speed		page 155 - type 1		page 155 - type 1	
Actuating force		0.08 Nm (0.25 Nm ➔)		0.08 Nm (0.25 Nm ➔)	
Travel diagrams		page 156 - group 5d		page 156 - group 5d	

Contact type:							
R = snap action							
Contact block							
63	R	FT 2A6356AH-E27	➔ 1NC	FT 2A6356AH-E27R26	➔ 1NC	FT 2A6356AH-E27R27	➔ 1NC
64	R	FT 2A6456AH-E27	➔ 2NC	FT 2A6456AH-E27R26	➔ 2NC	FT 2A6456AH-E27R27	➔ 2NC
Max. speed		page 155 - type 1		page 155 - type 1		page 155 - type 1	
Actuating force		0.08 Nm (0.25 Nm ➔)		0.08 Nm (0.25 Nm ➔)		0.08 Nm (0.25 Nm ➔)	
Travel diagrams		page 156 - group 5d		page 156 - group 5d		page 156 - group 5d	

Position switches with swivelling lever without actuator

Contact type:

R = snap action



Contact block

63	R	FT 2A6438AH-E27		1NC
64	R	FT 2A6438AH-E27		2NC
Actuating force		0.08 Nm (0.25 Nm )		
Travel diagrams		page 156 - group 5d		

IMPORTANT

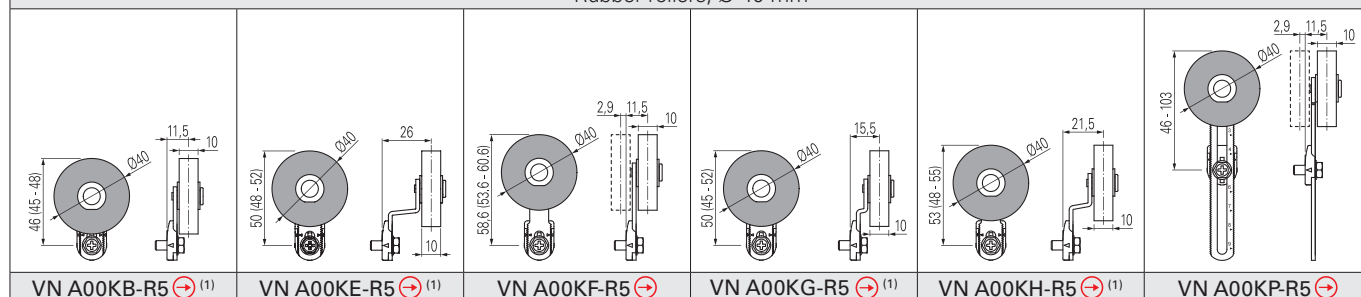
For safety applications: join only switches and actuators marked with symbol  next to the product code.

For more information about safety applications see details on page 153.

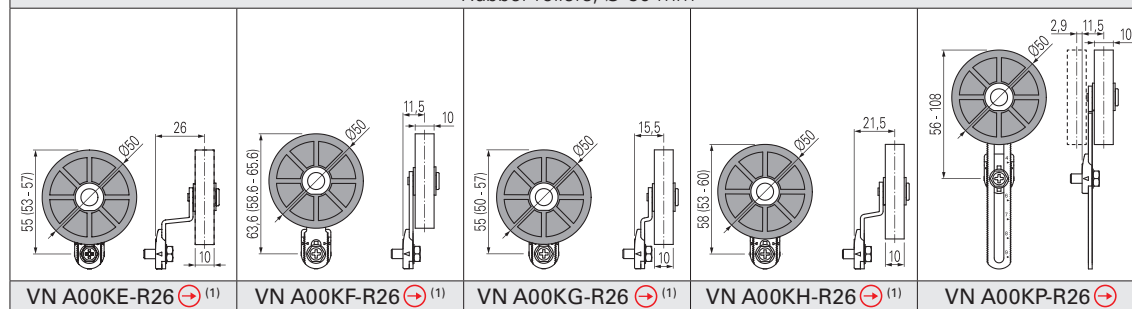
Special separate actuators

IMPORTANT: These separate actuators can be used only with items of the FR, FX series.

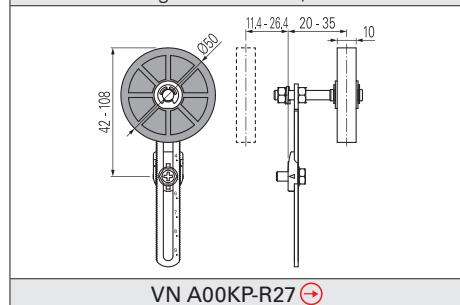
Rubber rollers, Ø 40 mm



Rubber rollers, Ø 50 mm



Protruding rubber rollers, Ø 50 mm





По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
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