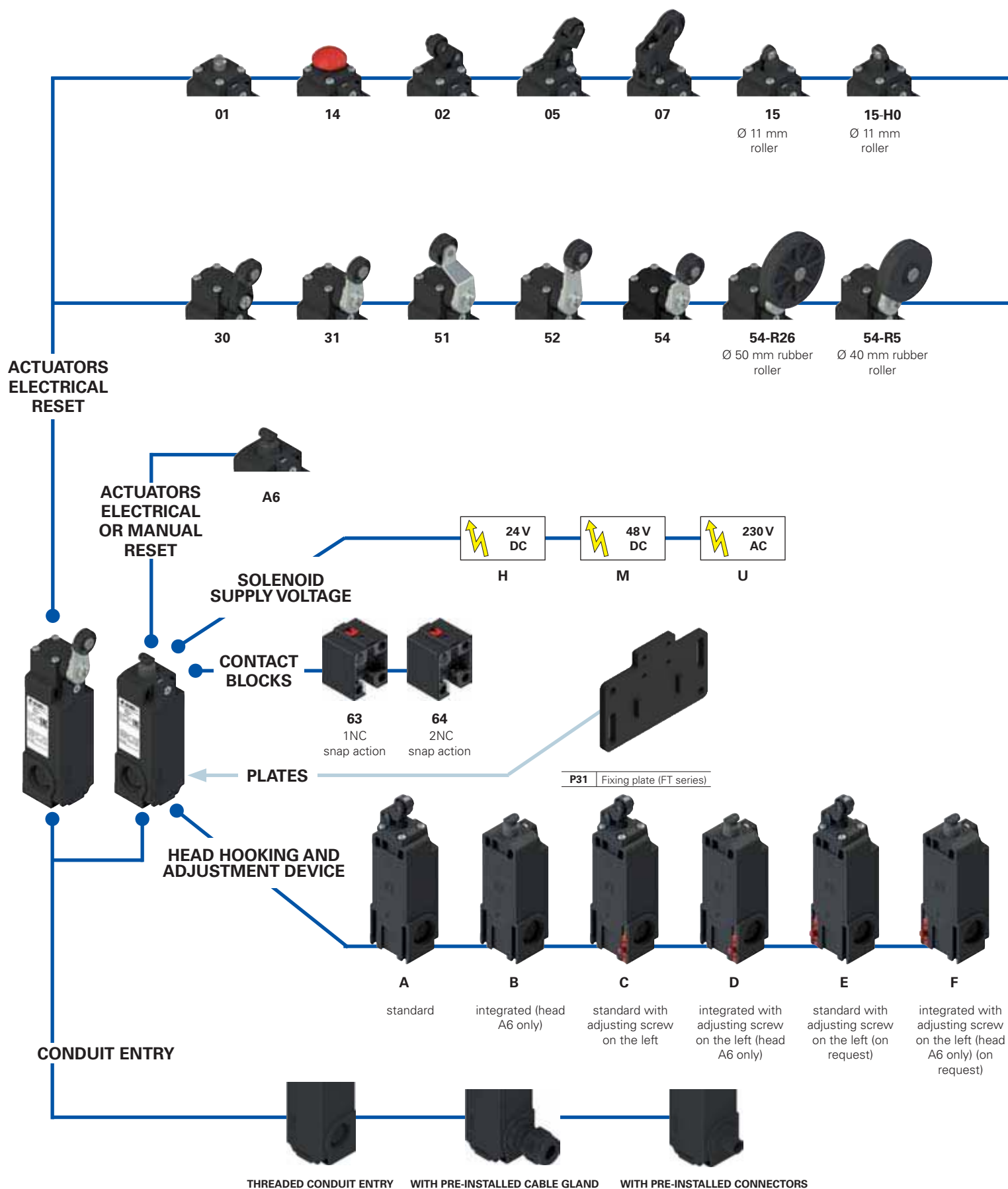
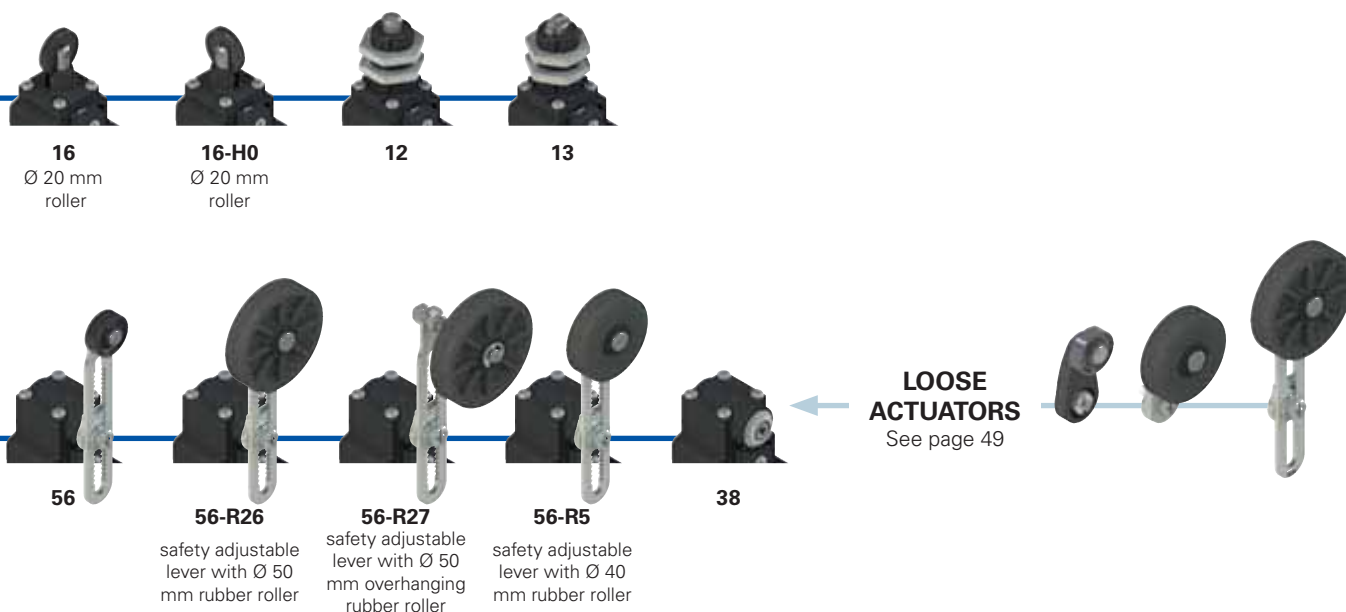


Selection diagram



Versions with pre-installed cable glands or connectors available.
For further information please contact the sales dept.



Code structure

article options
FT 2A6454AH-E27GP31R26

Housing

FT polymer housing, three conduit entries

Head hooking and adjustment device

A	standard
B	integrated (actuator A6 only)
C	standard with adjusting screw on the left
D	integrated with adjusting screw on the left (actuator A6 only)
E	standard with adjusting screw on the left (on request)
F	integrated with adjusting screw on the left (actuator A6 only) (on request)

Contact blocks

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

Actuators

A6	plunger with manual reset
01	short plunger
02	roller lever
05	offset roller lever
...

Rollers

	standard roller
R5	with Ø 40 mm rubber roller
R26	with Ø 50 mm rubber roller
R27	with Ø 50 mm overhanging rubber roller

Fixing plate

	without fixing plate (standard)
P31	supplied with fixing plate VF SFP3

Contacts type

	silver contacts (standard)
G	silver contacts gold plated 1 µm

Actuation force

E27	Standard actuating force
E26	Reduced actuating force
E28	Reduced actuating force (with K solenoid voltage only)

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)
J	24 Vdc 1.5 A (36 W)



Main data

- Different actuating force versions
- Versions with adjusting screw
- Polymer housing, with one or two conduit entries
- Protection degree IP67

Markings and quality marks:



Approval EAC: RU C-IT DM94.B.01024

Technical data

Housing

Made of glass-reinforced polymer, self-extinguishing, shock-proof thermoplastic resin and with double insulation

Three threaded conduit entries:

M20 x1.5 (standard)

Protection degree:

IP67 according to EN 60529 with cable gland having equal or higher protection degree

General data

Ambient temperature: -25°C ... +50°C

Version for operation in ambient temperature from -40°C to +50° C on request

Mechanical endurance:

50,000 operations cycles

Assembling position:

any

Driving torque for installation:

see page 123

(1) One operation cycle means two movements, one to close and one to open contacts, as foreseen by EN 60947-5-1 standard.

Cross section of the conductors (flexible copper wire)

Contact blocks 63, 64:

min.	1 x 0.34 mm ²	(1 x AWG 22)
max.	2 x 1.5 mm ²	(2 x AWG 16)

Solenoid

Rated operational voltage (U_e) and current (I_e):

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)

Solenoid duty cycle:

3% ED

Solenoid protection 24 Vdc (4.2 A):

fuse 5 A type F

Solenoid protection 24 Vdc (1.5 A):

fuse 2 A type F

Solenoid protection 48 Vdc (2.1 A):

fuse 2.5 A type F

Solenoid protection 48 Vdc (0.75 A):

fuse 1 A type F

Solenoid protection 230 Vac (0.5 A):

fuse 0.8 A, type F

Power supply time:

min. 0.2 s, max 0.5 s

Time without power supply:

min. 30 s

Max operating frequency:

118 operations cycles/hour

In conformity with standards:

EN 60947-5-1, IEC 60947-5-1, EN 81-20, EN 81-50

In conformity with requirements requested by:

Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and EMC Directive 2004/108/EC.

Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, VDE 0660-206.

Installation for safety applications:

Use only switches marked with the symbol 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 ISO 14119, par. 5.4**. The switch must be actuated with **at least up to the positive opening travel** shown in the travels diagrams on page 123. The switch must be actuated **at least with the positive opening force**, shown in brackets, underneath each article, near the value of the min. force.

Electrical data

Utilization categories

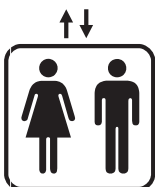
Thermal current (I _{th}):	10 A
Rated insulation voltage (U _i):	500 Vac 600 Vdc
Rated impulse withstand voltage (U _{imp}):	6 kV
Conditional short circuit current:	1000 A according to EN 60947-5-1
Protection against short circuits:	fuse 10 A 500 V type aM
Pollution degree:	3

Alternate current: AC15 (50...60 Hz)			
U _e (V)	250	400	500
I _e (A)	6	4	1
Direct current: DC13			
U _e (V)	24	125	250
I _e (A)	6	1.1	0.4

Introduction

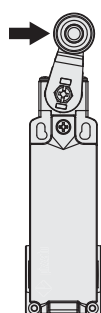
When the FT series safety switches with reset are operated they remain switched and they reset electrically through the integrated solenoid. Thanks to this feature it's possible to remote reset the switch without being physically near it. They are available with different actuators and are adapt to many 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.

EN 81-20 standard



- Safety 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.

Reduced actuating force -E26



On request FT series switches can be supplied with a reduced actuating force.

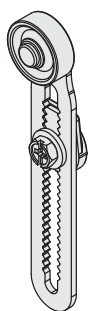
Actuator	Force
A6,	3.4 N (25 N ⊕)
01, 12, 13, 14, 15, 16	4.4 N (25 N ⊕)
02, 05	3.6 N (25 N ⊕)
07	2.1 N (25 N ⊕)
30, 31, 38, 51, 52, 54, 56	0.07 Nm (0.25 Nm ⊕)

Protection degree IP 67

IP67

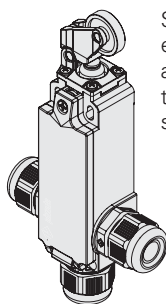
These series switches are all IP 67 rated.

Safety lever LE56



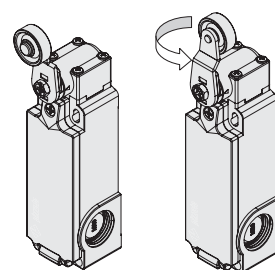
The adjustable lever code 56 (and variants) is supplied with an indentation which blocks the lever slipping in case of fixing screw release.

Conduit entries



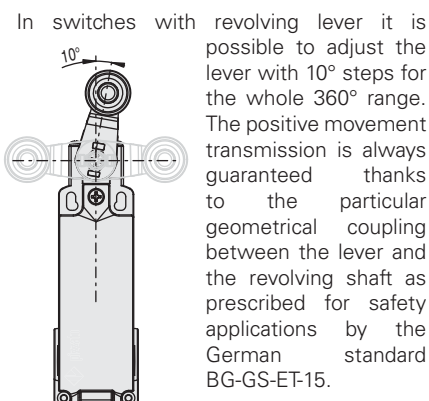
Switches with conduit entries in several directions are available, for applications also in restricted spaces.

Overturning levers



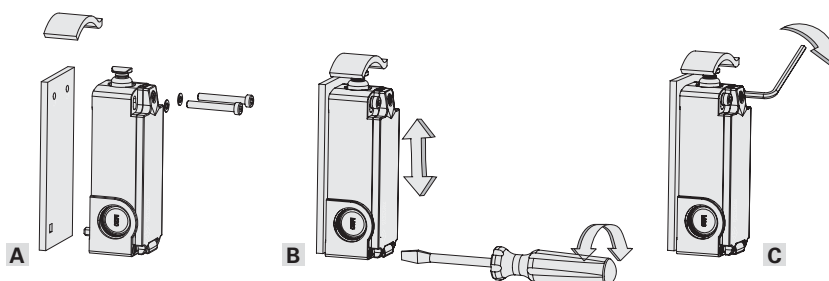
It's possible to fasten the lever on switches on straight or reverse side, maintaining the positive coupling. In this way it is possible to obtain two different work plans of the lever.

Adjustable levers



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.

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:

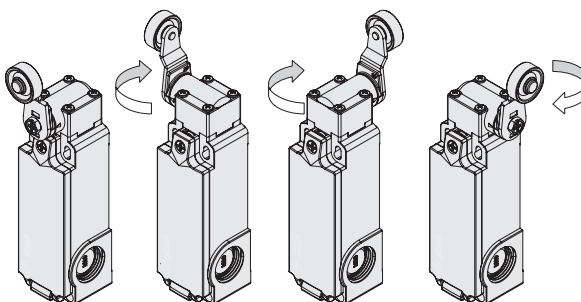
- Easy installation and adjustment
- Accurate vertical adjustment
- Wide adjustment travel (up to 4 mm)
- Unlosable components

Operation:

- 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.
- Adjust the switch position by the screw on the front.
- Finally lock the switch body to the over-speed device.

Rotating heads

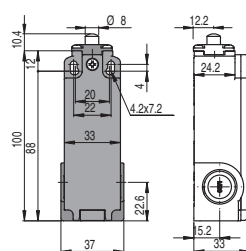
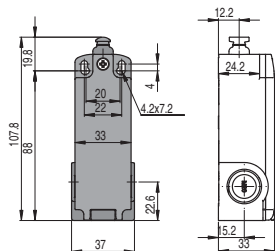
In all switches, it is possible to rotate the head in 90° steps.



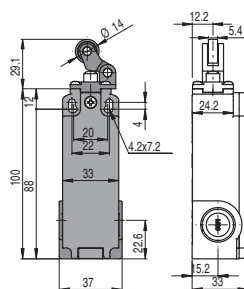
Contacts type:

R = snap action

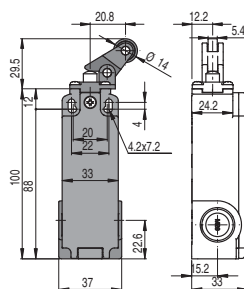
With external rubber gasket



With stainless steel roller on request

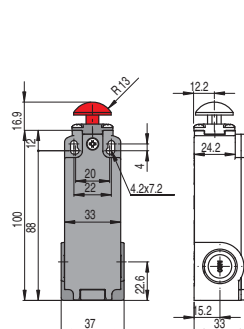
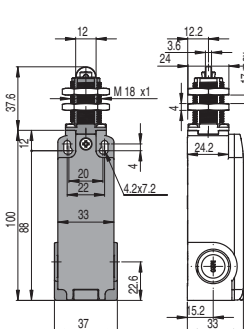
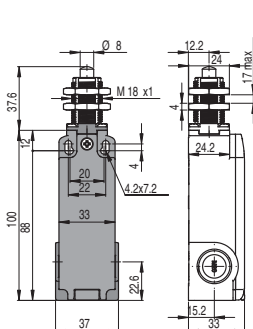
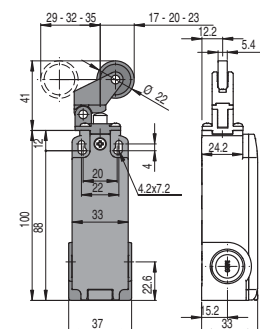


With stainless steel roller on request



Contact blocks

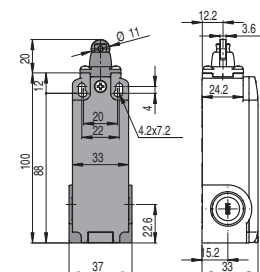
63	R	FT 2B63A6AH-E27	1NC	FT 2A6301AH-E27	1NC	FT 2A6302AH-E27	1NC	FT 2A6305AH-E27	1NC
64	R	FT 2B64A6AH-E27	2NC	FT 2A6401AH-E27	2NC	FT 2A6402AH-E27	2NC	FT 2A6405AH-E27	2NC
Max speed		page 123 - type 4		page 123 - type 4		page 123 - type 3		page 123 - type 3	
Min. force		5 N (25 N \rightarrow)		6 N (25 N \rightarrow)		5 N (25 N \rightarrow)		5 N (25 N \rightarrow)	
Travel diagrams		page 124 - group 1d		page 124 - group 2d		page 124 - group 3d		page 124 - group 3d	



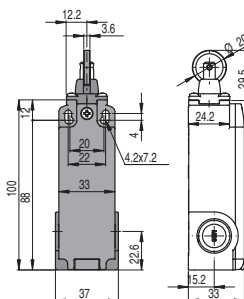
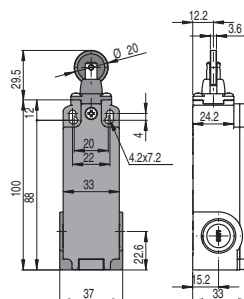
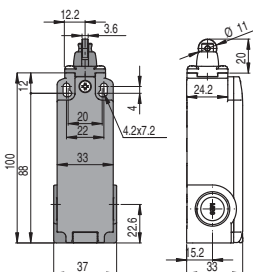
Contact blocks

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 123 - type 2		page 123 - type 4		page 123 - type 2		page 123 - type 2	
Min. force		3 N (25 N \rightarrow)		6 N (25 N \rightarrow)		6 N (25 N \rightarrow)		6 N (25 N \rightarrow)	
Travel diagrams		page 124 - group 4d		page 124 - group 2d		page 124 - group 2d		page 124 - group 2d	

On request Ø 12 mm stainless steel roller



On request Ø 12 mm stainless steel roller



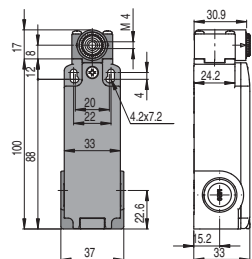
Contact blocks

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 123 - type 2		page 123 - type 2		page 123 - type 2		page 123 - type 2	
Min. force		6 N (25 N \rightarrow)		6 N (25 N \rightarrow)		6 N (25 N \rightarrow)		6 N (25 N \rightarrow)	
Travel diagrams		page 124 - group 2d		page 124 - group 2d		page 124 - group 2d		page 124 - group 2d	

Position switches with revolving lever without actuator

Contacts type:

R = snap action



Contact blocks

63	R	FT 2A6338AH-E27	1NC
64	R	FT 2A6438AH-E27	2NC
Max speed		page 123 - type 2	
Min. force		0.08 Nm (0.25 Nm)	
Travel diagrams		page 124 - group 5d	

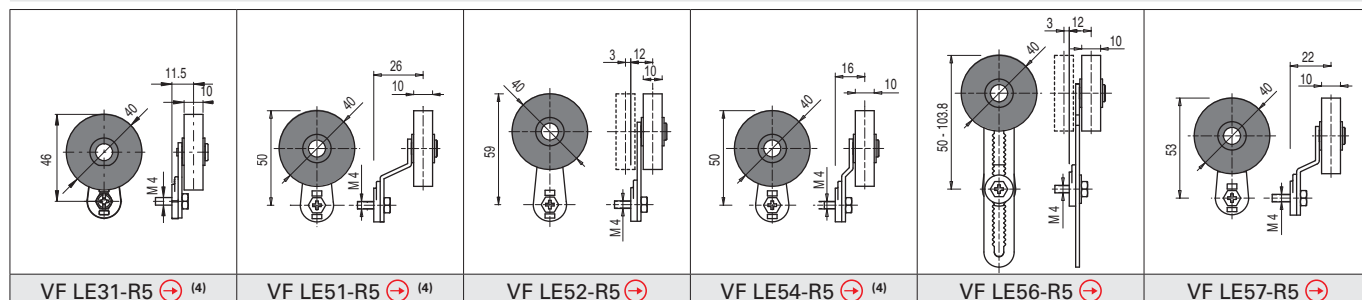
IMPORTANT

For safety applications: join only switches and actuators marked with symbol \oplus .

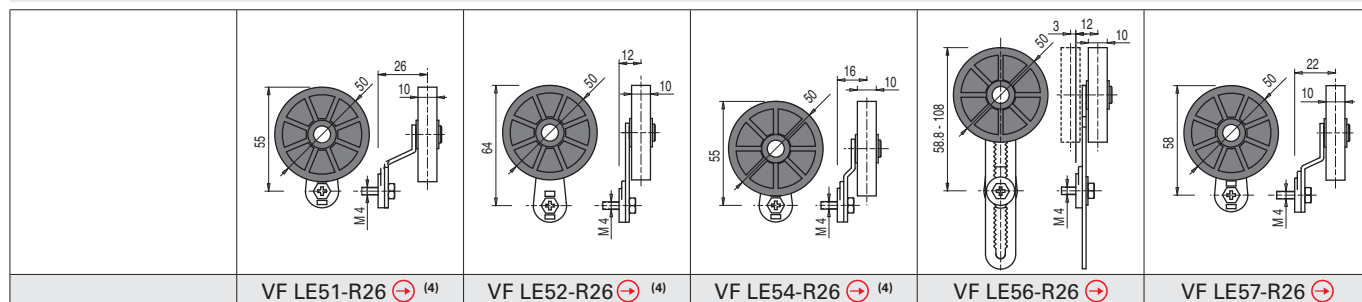
Special loose actuators

IMPORTANT: These loose actuators can be used with items of series FR, FX and FT only.

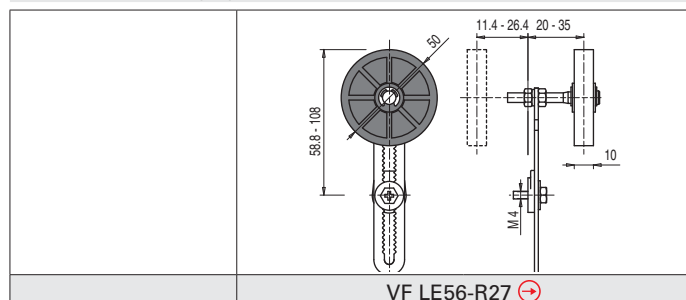
Ø 40 mm rubber rollers



Ø 50 mm rubber rollers



Ø 50 mm overhanging rubber rollers



- Only orders for multiple quantities of the packs are accepted.
- ⁽⁴⁾ The actuator cannot be oriented to inside direction because it will mechanically interfere with the switch head.

A full-page sheet of white graph paper featuring a uniform grid of thin gray lines. The grid consists of small squares covering the entire area. A single vertical line runs down the page, slightly to the right of the center, creating two columns of unequal width. There are also horizontal lines spaced evenly across the page.