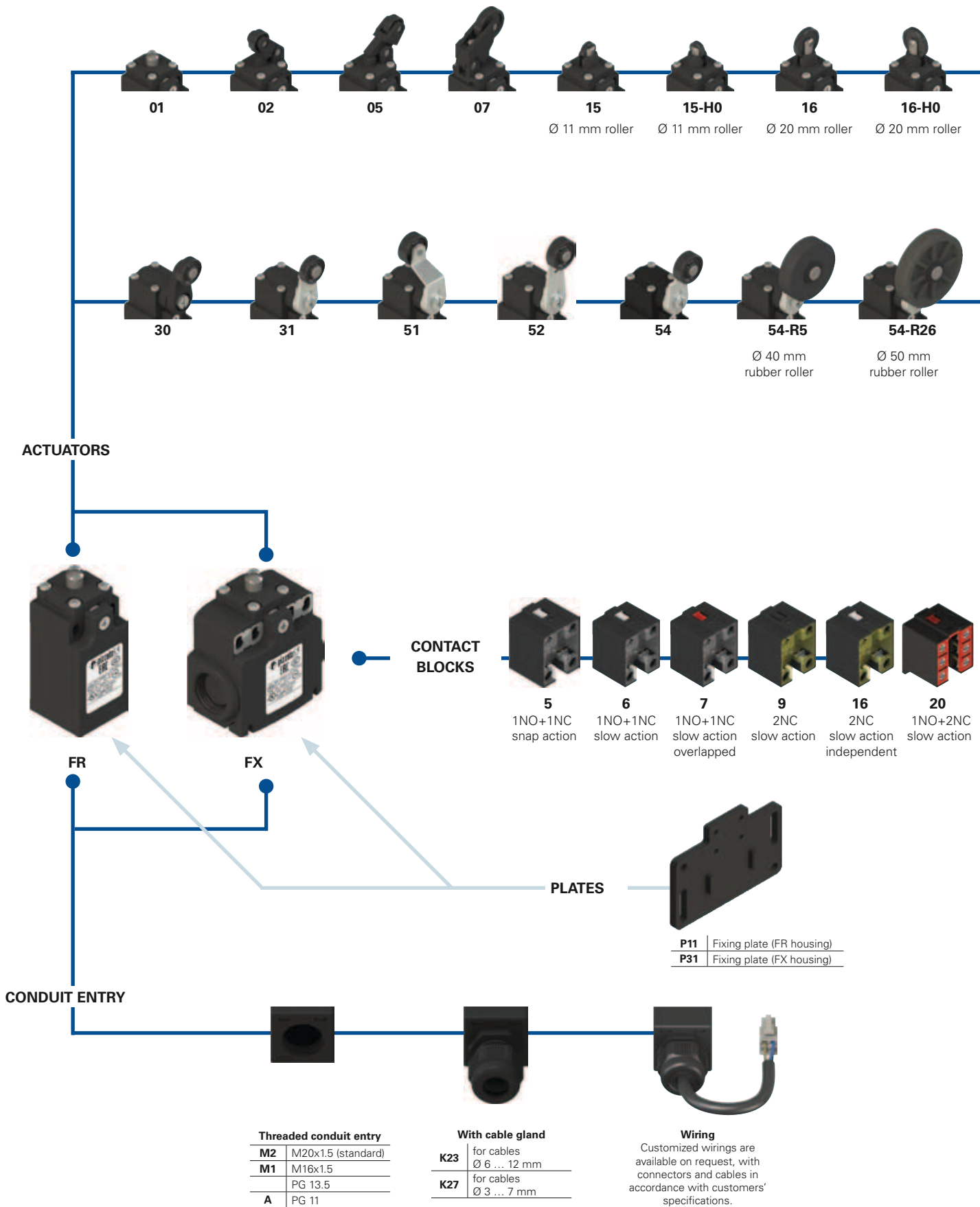
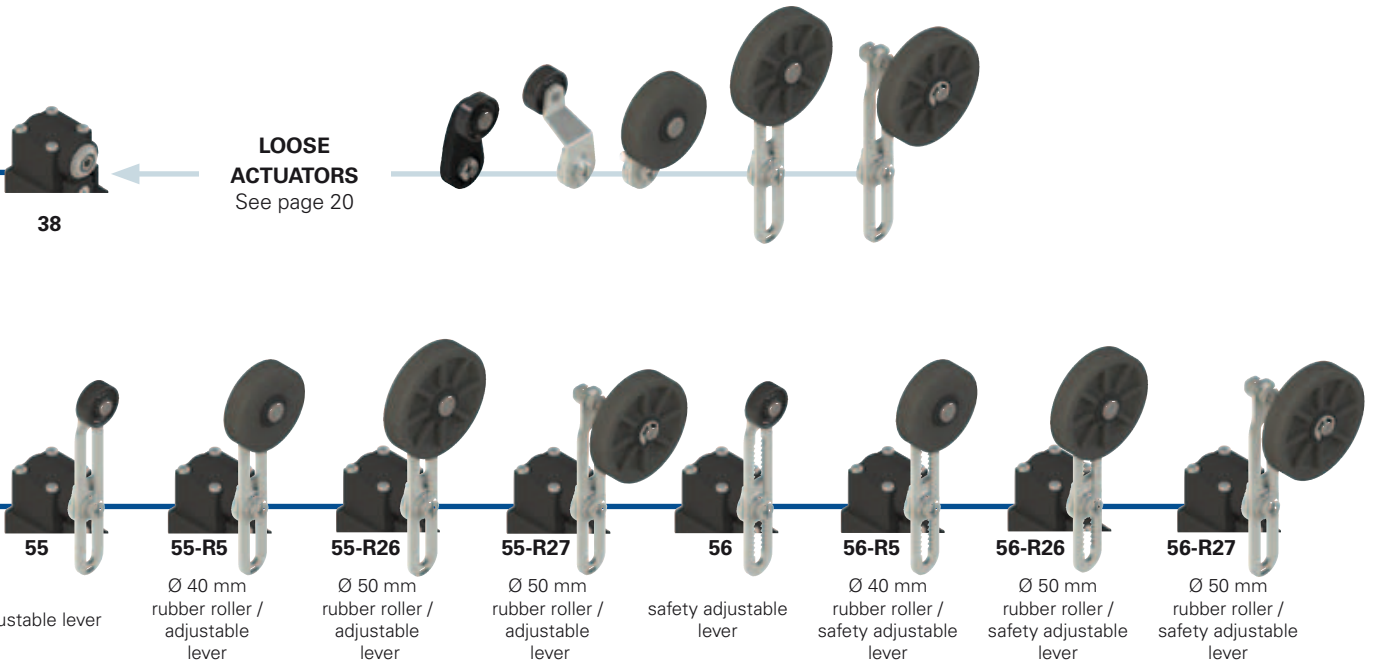


Selection diagram



● product option
➔ accessory sold separately



Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article option options
FR 655-GM2K23P11R26T6

Housing	
FR	polymer housing, one conduit entry
FX	polymer housing, two conduit entries

Contact blocks	
5	1NO+1NC, snap action
6	1NO+1NC, slow action
7	1NO+1NC, slow action overlapped
9	2NC, slow action
16	2NC, slow action independent
20	1NO+2NC, slow action

Actuators	
01	short plunger
02	roller lever
05	offset roller lever
...

Contact type	
	silver contacts (standard)
G	silver contacts with 1 µm gold coating
G1	silver contacts with 2,5 µm gold coating (not for contact block 20)

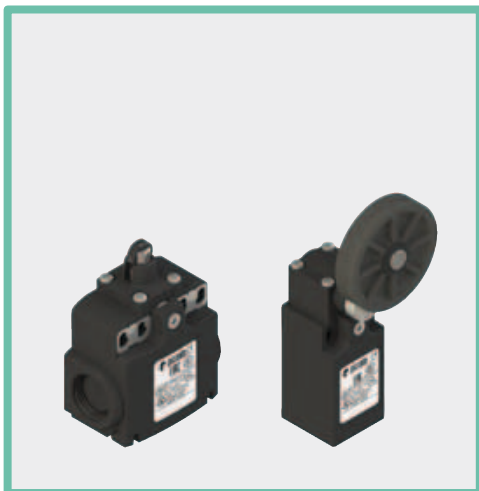
Ambient temperature	
	-25°C ... +80°C (standard)
T6	-40°C ... +80°C

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)
P11	supplied with plate VF SFP1 for FR housing
P31	supplied with plate VF SFP3 for FX housing

Threaded conduit entry	
M2	M20x1.5 (standard)
M1	M16x1.5
	PG 13.5
A	PG 11

Pre-installed cable glands	
K23	for cables Ø 6 ... 12 mm
K27	for cables Ø 3 ... 7 mm



Main data

- Polymer housing, with one or two conduit entries
- Protection degree IP67
- External stainless steel parts versions
- Wired versions
- Silver contacts gold plated versions

Quality marks:



Approval IMQ: EG610
 Approval IMQ-UNI: CA50.00662
 Approval UL: E131787
 Approval CCC: 2007010305230013
 Approval EAC: RU C-IT.AQ35.B.00454

Technical data

Housing

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

FR series one threaded conduit entry: M20x1.5 (standard)

FX series two knock-out threaded conduit entries: M20x1.5 (standard)

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

General data

Ambient temperature: -25°C ... +80°C
 Max operating frequency: 3600 operations cycles/hour
 Mechanical endurance: 20 million operations cycles
 Assembling position: any
 Safety parameters B_{10D} : 40,000,000 for NC contacts
 Mechanical interlock, not coded: type 1 according to EN ISO 14119
 Driving torque for installation: see page 133

Cross section of the conductors (flexible copper wire)

Contact blocks 20:	min.	1 x 0.34 mm ²	(1 x AWG 22)
	max.	2 x 1.5 mm ²	(2 x AWG 16)
Contact blocks 5, 6, 7, 9, 16:	min.	1 x 0.5 mm ²	(1 x AWG 20)
	max.	2 x 2.5 mm ²	(2 x AWG 14)

In conformity with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, EN 50047, IEC 60204-1, EN 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN 60529, EN 81-20, EN 81-50, UL 508, CSA 22.2 No.14

Approvals:

IEC 60947-5-1, UL 508, CSA 22.2 No.14, GB14048.5-2001.


In conformity with requirements requested by:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, Lift Directive 2014/33/UE.

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 . 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}): 10 A	Alternate current: AC15 (50...60 Hz)
Rated insulation voltage (U_i): 500 Vac 600 Vdc 400 Vac 500 Vdc (contacts block 20)	
Rated impulse withstand voltage (U_{imp}): 6 kV 4 kV for contact blocks 20	U_e (V) 250 400 500
Conditional short circuit current: 1000 A according to EN 60947-5-1	I_e (A) 6 4 1
Protection against short circuits: fuse 10 A 500 V type aM	Direct current: DC13
Pollution degree: 3	U_e (V) 24 125 250
	I_e (A) 6 1.1 0.4

Data type approved by IMQ

Rated insulation voltage (U_i): 500 Vac
400 Vac (for contacts block 20)

Thermal current (I_{th}): 10 A

Protection against short circuits: fuse 10 A 500 V type aM

Rated impulse withstand voltage (U_{imp}): 6 kV
4 kV for contacts block 20

Protection degree: IP67

MV terminals (screw clamps)

Pollution degree 3

Utilization category: AC15

Operation voltage (U_o): 400 Vac (50 Hz)

Operation current (I_o): 3 A

Forms of the contact element: Zb, Y+Y, Y+Y+X

Positive opening of contacts on contact block 5, 6, 7, 9, 16, 20

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

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

Data type approved by UL

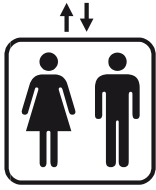
Utilization categories Q300 (69 VA, 125-250 Vdc)
A600 (720 VA, 120-600 Vac)

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, UL 508, CSA 22.2 No.14.

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

According to EN 81-20 and EN 81-50



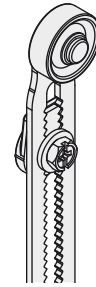
- Safety contacts according to EN 60947-5-1, encl. K.
- Protection degree higher than IP4x.
- Mechanical endurance higher than 10⁶ cycles.

Protection degree IP 67

IP67

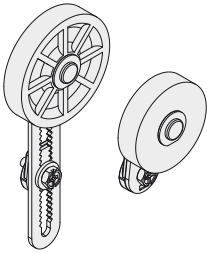
These series switches are all IP 67 rated.

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.

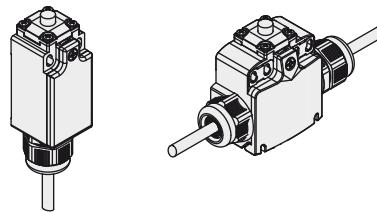
Rubber rollers



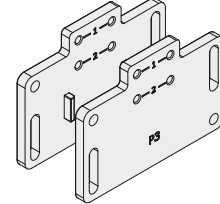
Different actuators with rubber rollers are available. The client can choose the most suitable product depending on lift speed in order to reduce the noise inside the cabin.

Conduit entries

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



Adaptive plates

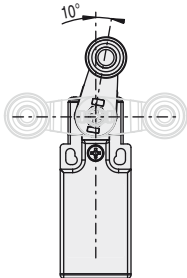


Adaptive plates provided with long slots for the adjustment of the actuating point, developed for compatibility with old products.

Every plate has a double couple of switch fixing holes, one for standard switches and the other one for switches with reset device. In this way the actuator will always have the same actuating point.

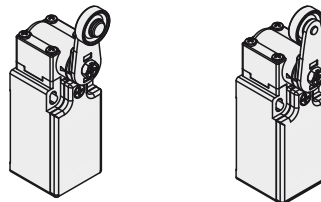
Adjustable levers

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.



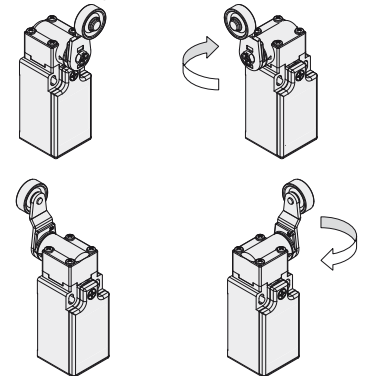
Overturning levers

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.



Rotating heads

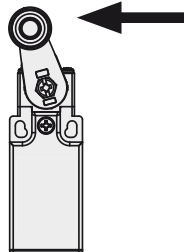
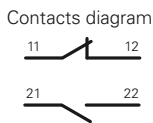
In all switches, it is possible to rotate the head in 90° steps.



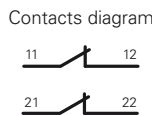
Working operation of contact block 16 with independent contacts

The contact block 16 has two NC contacts, both with positive opening activated independently according to the lever turning direction.

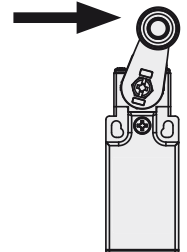
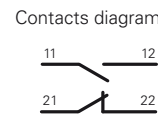
Lever turned to left



Lever not turned



Lever turned to right



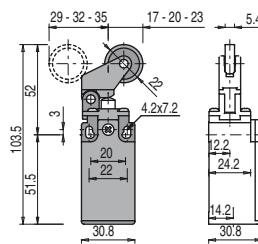
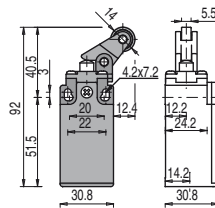
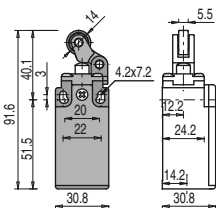
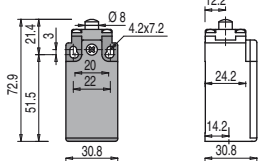
Extended temperature range

-40°C

This range of switches is also available in a special version with an ambient operating temperature range of -40°C to +80°C. This is particularly useful for applications in cold stores, sterilisers and other low temperature environments. The materials used in the production of these switches maintain the standard operating parameters even over this temperature range, further increasing application possibilities.

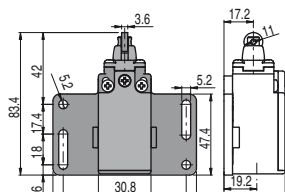
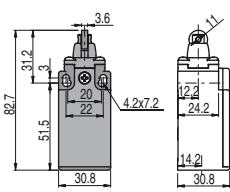
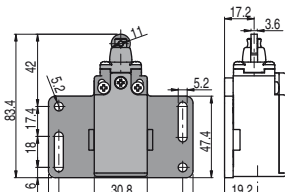
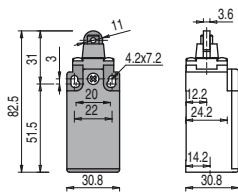
Contacts type:

- R** = snap action
- L** = slow action
- LO** = slow action overlapped
- LI** = slow action independent



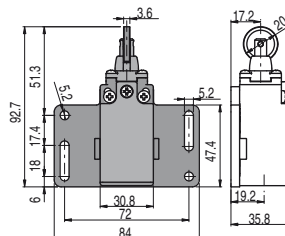
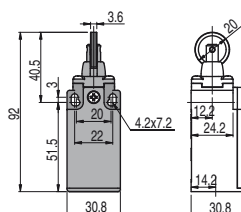
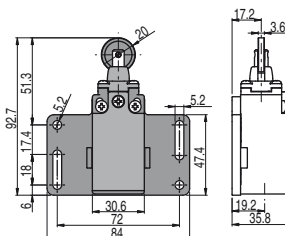
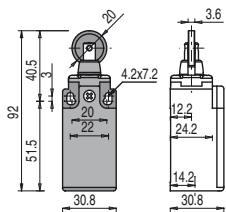
Contact blocks

5	R	FR 501-M2 (R) 1NO+1NC	FR 502-M2 (R) 1NO+1NC	FR 505-M2 (R) 1NO+1NC	FR 507-M2 (R) 1NO+1NC
6	L	FR 601-M2 (L) 1NO+1NC	FR 602-M2 (L) 1NO+1NC	FR 605-M2 (L) 1NO+1NC	FR 607-M2 (L) 1NO+1NC
7	LO	FR 701-M2 (LO) 1NO+1NC	FR 702-M2 (LO) 1NO+1NC	FR 705-M2 (LO) 1NO+1NC	FR 707-M2 (LO) 1NO+1NC
9	L	FR 901-M2 (L) 2NC	FR 902-M2 (L) 2NC	FR 905-M2 (L) 2NC	FR 907-M2 (L) 2NC
16	LI				
20	L	FR 2001-M2 (L) 1NO+2NC	FR 2002-M2 (L) 1NO+2NC	FR 2005-M2 (L) 1NO+2NC	FR 2007-M2 (L) 1NO+2NC
Max speed		page 133 - type 4	page 133 - type 3	page 133 - type 3	page 133 - type 3
Actuating force		8 N (25 N (R))	6 N (25 N (R))	6 N (25 N (R))	4 N (25 N (R))
Travel diagrams		page 134 - group 1a	page 134 - group 2a	page 134 - group 2a	page 134 - group 3a



Contact blocks

5	R	FR 515-M2 (R) 1NO+1NC	FR 515-M2P11 (R) 1NO+1NC	FR 515-H0M2 (R) 1NO+1NC	FR 515-H0M2P11 (R) 1NO+1NC
6	L	FR 615-M2 (L) 1NO+1NC	FR 615-M2P11 (L) 1NO+1NC	FR 615-H0M2 (L) 1NO+1NC	FR 615-H0M2P11 (L) 1NO+1NC
7	LO	FR 715-M2 (LO) 1NO+1NC	FR 715-M2P11 (LO) 1NO+1NC	FR 715-H0M2 (LO) 1NO+1NC	FR 715-H0M2P11 (LO) 1NO+1NC
9	L	FR 915-M2 (L) 2NC	FR 915-M2P11 (L) 2NC	FR 915-H0M2 (L) 2NC	FR 915-H0M2P11 (L) 2NC
16	LI				
20	L	FR 2015-M2 (L) 1NO+2NC	FR 2015-M2P11 (L) 1NO+2NC	FR 2015-H0M2 (L) 1NO+2NC	FR 2015-H0M2P11 (L) 1NO+2NC
Max speed		page 133 - type 2	page 133 - type 2	page 133 - type 2	page 133 - type 2
Actuating force		8 N (25 N (R))	8 N (25 N (R))	8 N (25 N (R))	8 N (25 N (R))
Travel diagrams		page 134 - group 1a	page 134 - group 1a	page 134 - group 1a	page 134 - group 1a



Contact blocks

5	R	FR 516-M2 (R) 1NO+1NC	FR 516-M2P11 (R) 1NO+1NC	FR 516-H0M2 (R) 1NO+1NC	FR 516-H0M2P11 (R) 1NO+1NC
6	L	FR 616-M2 (L) 1NO+1NC	FR 616-M2P11 (L) 1NO+1NC	FR 616-H0M2 (L) 1NO+1NC	FR 616-H0M2P11 (L) 1NO+1NC
7	LO	FR 716-M2 (LO) 1NO+1NC	FR 716-M2P11 (LO) 1NO+1NC	FR 716-H0M2 (LO) 1NO+1NC	FR 716-H0M2P11 (LO) 1NO+1NC
9	L	FR 916-M2 (L) 2NC	FR 916-M2P11 (L) 2NC	FR 916-H0M2 (L) 2NC	FR 916-H0M2P11 (L) 2NC
16	LI				
20	L	FR 2016-M2 (L) 1NO+2NC	FR 2016-M2P11 (L) 1NO+2NC	FR 2016-H0M2 (L) 1NO+2NC	FR 2016-H0M2P11 (L) 1NO+2NC
Max speed		page 133 - type 2	page 133 - type 2	page 133 - type 2	page 133 - type 2
Actuating force		8 N (25 N (R))	8 N (25 N (R))	8 N (25 N (R))	8 N (25 N (R))
Travel diagrams		page 134 - group 1a	page 134 - group 1a	page 134 - group 1a	page 134 - group 1a

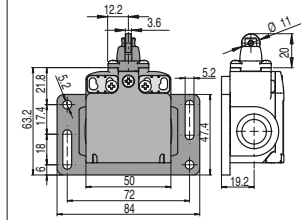
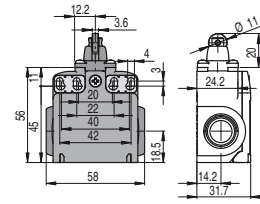
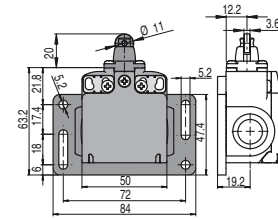
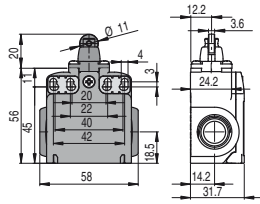
Items with code on the **green** background are available in stock

Accessories See page 127

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

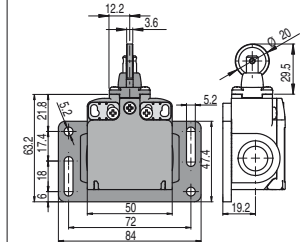
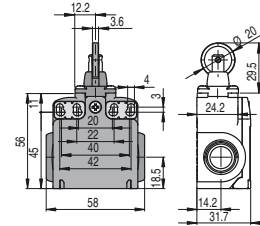
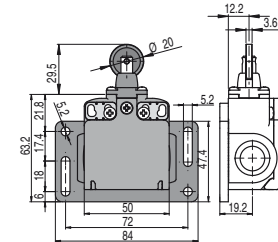
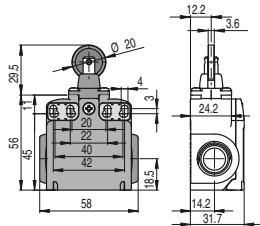
Contacts type:

- R** = snap action
- L** = slow action
- LO** = slow action overlapped
- LI** = slow action independent



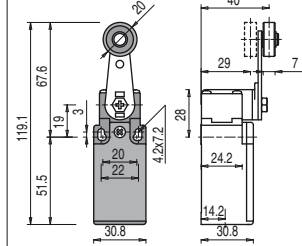
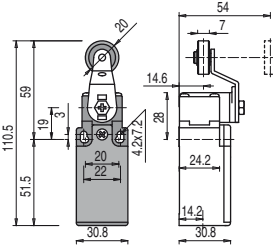
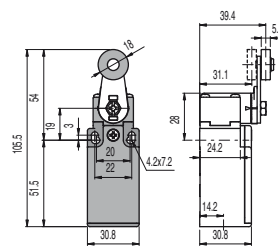
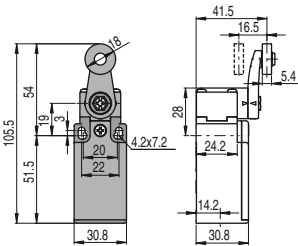
Contact blocks

5	R	FX 515-M2 → 1NO+1NC	FX 515-M2P31 → 1NO+1NC	FX 515-H0M2 → 1NO+1NC	FX 515-H0M2P31 → 1NO+1NC
6	L	FX 615-M2 → 1NO+1NC	FX 615-M2P31 → 1NO+1NC	FX 615-H0M2 → 1NO+1NC	FX 615-H0M2P31 → 1NO+1NC
7	LO	FX 715-M2 → 1NO+1NC	FX 715-M2P31 → 1NO+1NC	FX 715-H0M2 → 1NO+1NC	FX 715-H0M2P31 → 1NO+1NC
9	L	FX 915-M2 → 2NC	FX 915-M2P31 → 2NC	FX 915-H0M2 → 2NC	FX 915-H0M2P31 → 2NC
16	LI				
20	L	FX 2015-M2 → 1NO+2NC	FX 2015-M2P31 → 1NO+2NC	FX 2015-H0M2 → 1NO+2NC	FX 2015-H0M2P31 → 1NO+2NC
Max speed		page 133 - type 2	page 133 - type 2	page 133 - type 2	page 133 - type 2
Actuating force		8 N (25 N →)	8 N (25 N →)	8 N (25 N →)	8 N (25 N →)
Travel diagrams		page 134 - group 1a	page 134 - group 1a	page 134 - group 1a	page 134 - group 1a



Contact blocks

5	R	FX 516-M2 → 1NO+1NC	FX 516-M2P31 → 1NO+1NC	FX 516-H0M2 → 1NO+1NC	FX 516-H0M2P31 → 1NO+1NC
6	L	FX 616-M2 → 1NO+1NC	FX 616-M2P31 → 1NO+1NC	FX 616-H0M2 → 1NO+1NC	FX 616-H0M2P31 → 1NO+1NC
7	LO	FX 716-M2 → 1NO+1NC	FX 716-M2P31 → 1NO+1NC	FX 716-H0M2 → 1NO+1NC	FX 716-H0M2P31 → 1NO+1NC
9	L	FX 916-M2 → 2NC	FX 916-M2P31 → 2NC	FX 916-H0M2 → 2NC	FX 916-H0M2P31 → 2NC
16	LI				
20	L	FX 2016-M2 → 1NO+2NC	FX 2016-M2P31 → 1NO+2NC	FX 2016-H0M2 → 1NO+2NC	FX 2016-H0M2P31 → 1NO+2NC
Max speed		page 133 - type 2	page 133 - type 2	page 133 - type 2	page 133 - type 2
Actuating force		8 N (25 N →)	8 N (25 N →)	8 N (25 N →)	8 N (25 N →)
Travel diagrams		page 134 - group 1a	page 134 - group 1a	page 134 - group 1a	page 134 - group 1a



Contact blocks

5	R	FR 530-M2 → 1NO+1NC	FR 531-M2 → 1NO+1NC	FR 551-M2 → 1NO+1NC	FR 552-M2 → 1NO+1NC
6	L	FR 630-M2 → 1NO+1NC	FR 631-M2 → 1NO+1NC	FR 651-M2 → 1NO+1NC	FR 652-M2 → 1NO+1NC
7	LO	FR 730-M2 → 1NO+1NC	FR 731-M2 → 1NO+1NC	FR 751-M2 → 1NO+1NC	FR 752-M2 → 1NO+1NC
9	L	FR 930-M2 → 2NC	FR 931-M2 → 2NC	FR 951-M2 → 2NC	FR 952-M2 → 2NC
16	LI	FR 1630-M2 → 2NC	FR 1631-M2 → 2NC	FR 1651-M2 → 2NC	FR 1652-M2 → 2NC
20	L	FR 2030-M2 → 1NO+2NC	FR 2031-M2 → 1NO+2NC	FR 2051-M2 → 1NO+2NC	FR 2052-M2 → 1NO+2NC
Max speed		page 133 - type 1	page 133 - type 1	page 133 - type 1	page 133 - type 1
Actuating force		0.06 Nm (0.25 Nm →)	0.06 Nm (0.25 Nm →)	0.06 Nm (0.25 Nm →)	0.06 Nm (0.25 Nm →)
Travel diagrams		page 134 - group 4a	page 134 - group 4a	page 134 - group 4a	page 134 - group 4a

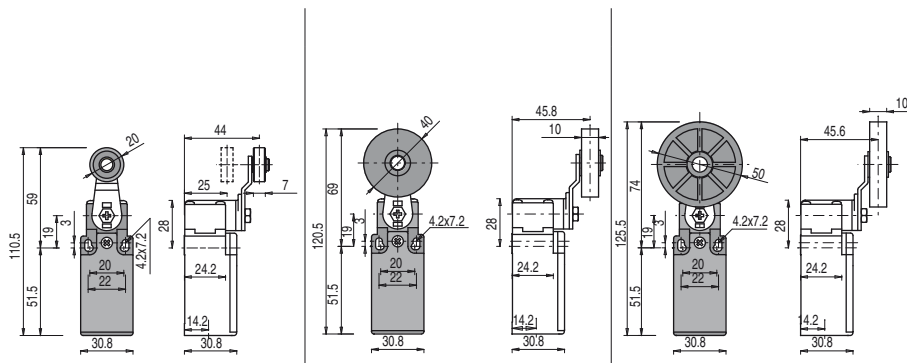
→ The 2D/3D files are available at www.pizzato.com

Accessories See page 127

Items with code on the green background are available in stock

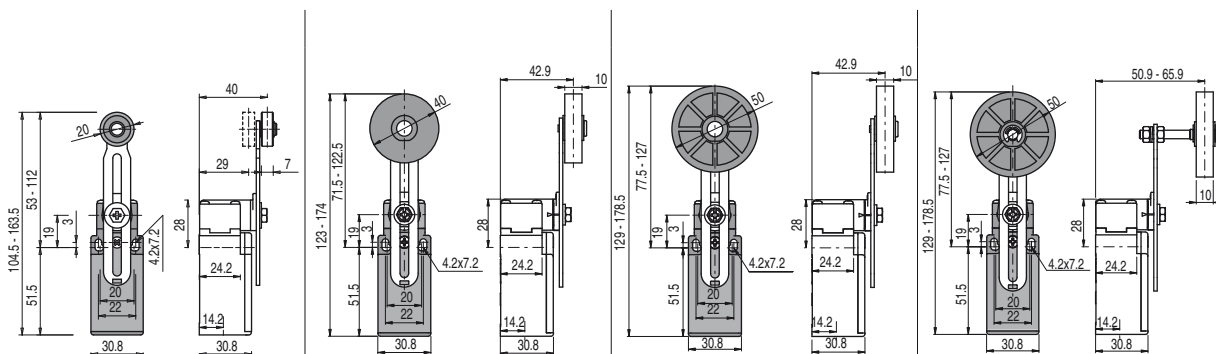
Contacts type:

- R** = snap action
- L** = slow action
- LO** = slow action overlapped
- LI** = slow action independent



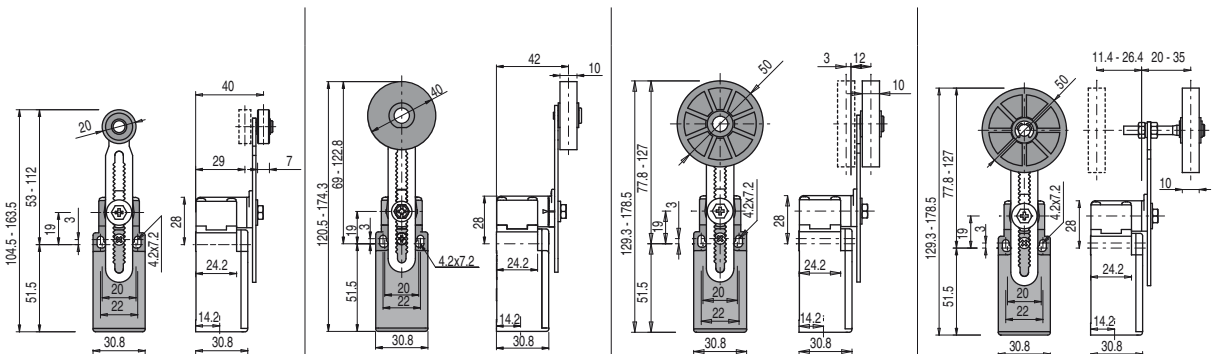
Contact blocks

5	R	FR 554-M2 (R) 1NO+1NC	FR 554-M2R5 (R) 1NO+1NC	FR 554-M2R26 (R) 1NO+1NC
6	L	FR 654-M2 (L) 1NO+1NC	FR 654-M2R5 (L) 1NO+1NC	FR 654-M2R26 (L) 1NO+1NC
7	LO	FR 754-M2 (LO) 1NO+1NC	FR 754-M2R5 (LO) 1NO+1NC	FR 754-M2R26 (LO) 1NO+1NC
9	L	FR 954-M2 (L) 2NC	FR 954-M2R5 (L) 2NC	FR 954-M2R26 (L) 2NC
16	LI	FR 1654-M2 (LI) 2NC	FR 1654-M2R5 (LI) 2NC	FR 1654-M2R26 (LI) 2NC
20	L	FR 2054-M2 (L) 1NO+2NC	FR 2054-M2R5 (L) 1NO+2NC	FR 2054-M2R26 (L) 1NO+2NC
Max speed		page 133 - type 1	page 133 - type 1	page 133 - type 1
Actuating force		0.06 Nm (0.25 Nm (R))	0.06 Nm (0.25 Nm (R))	0.06 Nm (0.25 Nm (R))
Travel diagrams		page 134 - group 4a	page 134 - group 4a	page 134 - group 4a



Contact blocks

5	R	FR 555-M2 (R) (1) 1NO+1NC	FR 555-M2R5 (R) (1) 1NO+1NC	FR 555-M2R26 (R) (1) 1NO+1NC	FR 555-M2R27 (R) (1) 1NO+1NC
6	L	FR 655-M2 (L) (1) 1NO+1NC	FR 655-M2R5 (L) (1) 1NO+1NC	FR 655-M2R26 (L) (1) 1NO+1NC	FR 655-M2R27 (L) (1) 1NO+1NC
7	LO	FR 755-M2 (LO) (1) 1NO+1NC	FR 755-M2R5 (LO) (1) 1NO+1NC	FR 755-M2R26 (LO) (1) 1NO+1NC	FR 755-M2R27 (LO) (1) 1NO+1NC
9	L	FR 955-M2 (L) (1) 2NC	FR 955-M2R5 (L) (1) 2NC	FR 955-M2R26 (L) (1) 2NC	FR 955-M2R27 (L) (1) 2NC
16	LI	FR 1655-M2 (LI) (1) 2NC	FR 1655-M2R5 (LI) (1) 2NC	FR 1655-M2R26 (LI) (1) 2NC	FR 1655-M2R27 (LI) (1) 2NC
20	L	FR 2055-M2 (L) (1) 1NO+2NC	FR 2055-M2R5 (L) (1) 1NO+2NC	FR 2055-M2R26 (L) (1) 1NO+2NC	FR 2055-M2R27 (L) (1) 1NO+2NC
Max speed		page 133 - type 1	page 133 - type 1	page 133 - type 1	page 133 - type 1
Actuating force		0.06 Nm (0.25 Nm (R))	0.06 Nm (0.25 Nm (R))	0.06 Nm (0.25 Nm (R))	0.06 Nm (0.25 Nm (R))
Travel diagrams		page 134 - group 4a	page 134 - group 4a	page 134 - group 4a	page 134 - group 4a



Contact blocks

5	R	FR 556-M2 (R) 1NO+1NC	FR 556-M2R5 (R) 1NO+1NC	FR 556-M2R26 (R) 1NO+1NC	FR 556-M2R27 (R) 1NO+1NC
6	L	FR 656-M2 (L) 1NO+1NC	FR 656-M2R5 (L) 1NO+1NC	FR 656-M2R26 (L) 1NO+1NC	FR 656-M2R27 (L) 1NO+1NC
7	LO	FR 756-M2 (LO) 1NO+1NC	FR 756-M2R5 (LO) 1NO+1NC	FR 756-M2R26 (LO) 1NO+1NC	FR 756-M2R27 (LO) 1NO+1NC
9	L	FR 956-M2 (L) 2NC	FR 956-M2R5 (L) 2NC	FR 956-M2R26 (L) 2NC	FR 956-M2R27 (L) 2NC
16	LI	FR 1656-M2 (LI) 2NC	FR 1656-M2R5 (LI) 2NC	FR 1656-M2R26 (LI) 2NC	FR 1656-M2R27 (LI) 2NC
20	L	FR 2056-M2 (L) 1NO+2NC	FR 2056-M2R5 (L) 1NO+2NC	FR 2056-M2R26 (L) 1NO+2NC	FR 2056-M2R27 (L) 1NO+2NC
Max speed		page 133 - type 1	page 133 - type 1	page 133 - type 1	page 133 - type 1
Actuating force		0.06 Nm (0.25 Nm (R))	0.06 Nm (0.25 Nm (R))	0.06 Nm (0.25 Nm (R))	0.06 Nm (0.25 Nm (R))
Travel diagrams		page 134 - group 4a	page 134 - group 4a	page 134 - group 4a	page 134 - group 4a

(1) Positive opening only with lever adjusted on the max.

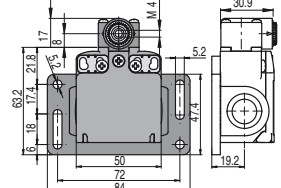
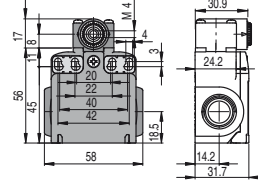
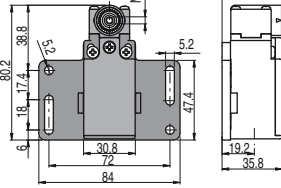
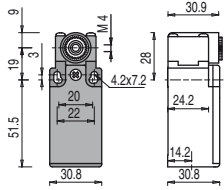
Accessories See page 127

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

Position switches with roller lever without actuator

Contacts type:

- R** = snap action
- L** = slow action
- LO** = slow action overlapped
- LI** = slow action independent



Contact blocks

5	R	FR 538-M2 (1NO+1NC)	FR 538-M2P11 (1NO+1NC)	FX 538-M2 (1NO+1NC)	FX 538-M2P31 (1NO+1NC)	
6	L	FR 638-M2 (1NO+1NC)	FR 638-M2P11 (1NO+1NC)	FX 638-M2 (1NO+1NC)	FX 638-M2P31 (1NO+1NC)	
7	LO	FR 738-M2 (1NO+1NC)	FR 738-M2P11 (1NO+1NC)	FX 738-M2 (1NO+1NC)	FX 738-M2P31 (1NO+1NC)	
9	L	FR 938-M2 (2NC)	FR 938-M2P11 (2NC)	FX 938-M2 (2NC)	FX 938-M2P31 (2NC)	
16	LI	FR 1638-M2 (2NC)	FR 1638-M2P11 (2NC)	FX 1638-M2 (2NC)	FX 1638-M2P31 (2NC)	
20	L	FR 2038-M2 (1NO+2NC)	FR 2038-M2P11 (1NO+2NC)	FX 2038-M2 (1NO+2NC)	FX 2038-M2P31 (1NO+2NC)	
Max speed	page 133 - type 1		page 133 - type 1		page 133 - type 1	
Actuating force	0.06 Nm (0.25 Nm (1))		0.06 Nm (0.25 Nm (1))		0.06 Nm (0.25 Nm (1))	
Travel diagrams	page 134 - group 4a		page 134 - group 4a		page 134 - group 4a	

IMPORTANT

For safety applications: join only switches and actuators marked with symbol (1).

Special loose actuators

All measures in the drawings are in mm

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

Ø 40 mm rubber rollers

VF LE31-R5 (1) (4)	VF LE51-R5 (1) (4)	VF LE52-R5 (1)	VF LE54-R5 (1) (4)	VF LE55-R5 (1) (1)	VF LE56-R5 (1)	VF LE57-R5 (1) (4)

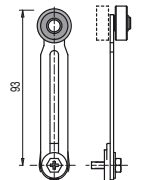
Ø 50 mm rubber rollers

VF LE51-R26 (1) (4)	VF LE52-R26 (1) (4)	VF LE54-R26 (1) (4)	VF LE55-R26 (1) (1)	VF LE56-R26 (1)	VF LE57-R26 (1) (4)

Ø 50 mm overhanging rubber rollers

VF LE55-R27 (1) (1)	VF LE56-R27 (1) (1)

- (1) Actuator VF LE55 suits to safety applications only if adjusted to its max length, as you can see in figure beside. If you need an adjustable lever for safety applications, use the adjustable safety lever VF LE56.
- (4) The actuator cannot be oriented to inside direction because it will mechanically interfere with the switch head.



Items with code on the **green** background are available in stock