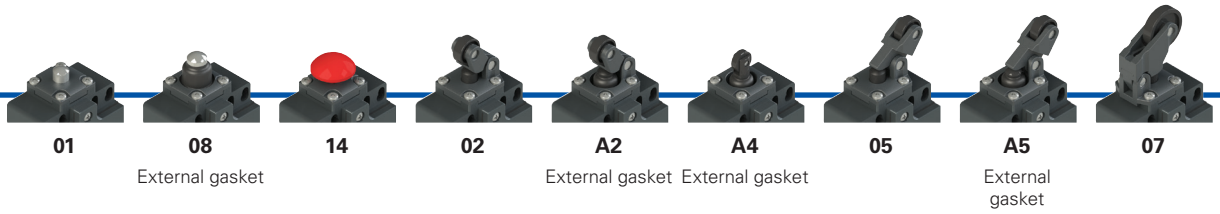
Selection diagram



01

08
External gasket

14

02

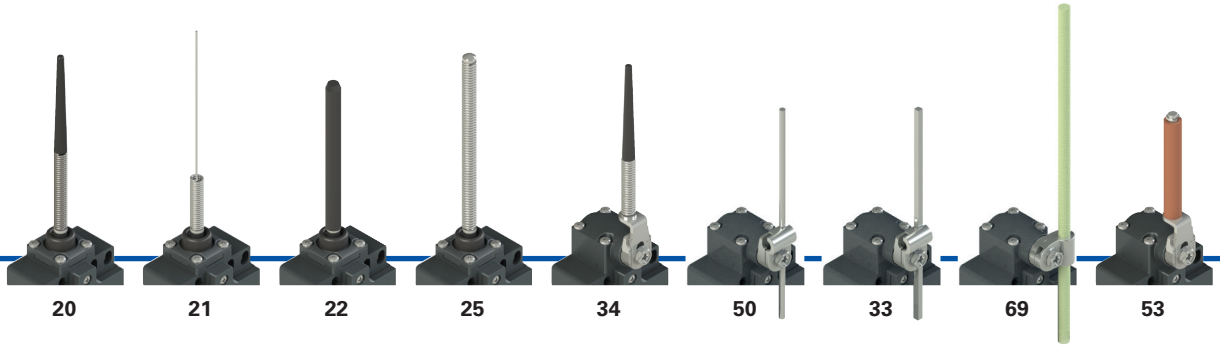
A2
External gasket

A4
External gasket

05

A5
External gasket

07



20
External gasket, spring rod with plastic tip

21
External gasket, spring rod with wire tip

22
External gasket, rigid rod

25
External gasket, spring rod

34
Spring rod with plastic tip

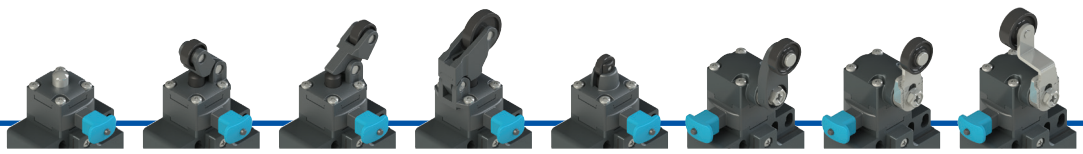
50
Round rod, stainless steel

33
Square rod

69
Glass fibre rod

53
Porcelain roller

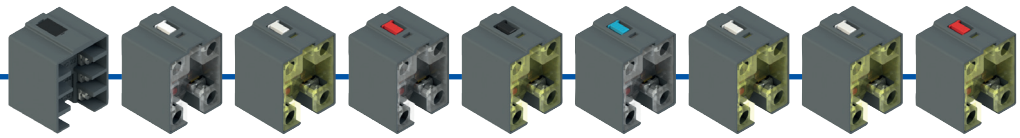
WITH RESET



01-W3 | **02-W3** | **05-W3** | **07-W3** | **15-W3R28** | **30-W3** | **31-W3** | **51-W3**

ACTUATORS

CONTACT BLOCKS



2
2x (1NO-1NC) snap action

5
1NO+1NC snap action

6
1NO+1NC slow action

7
1NO+1NC slow action, make before break

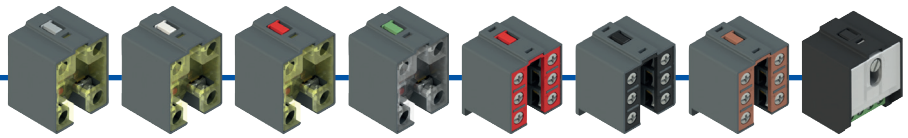
9
2NC slow action

10
2NO slow action

11
2NC snap action

12
2NO snap action

13
2NC slow action shifted and spaced



14
2NC slow action, shifted

15
2NO slow action, shifted

16
2NC slow action, independent

18
1NO+1NC slow action, close

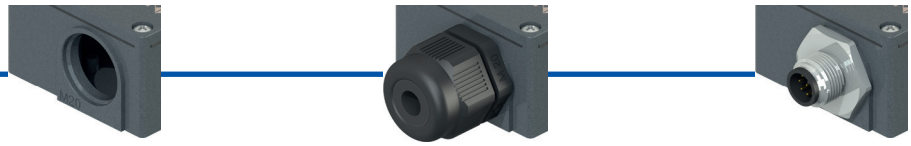
20
1NO+2NC slow action

21
3NC slow action

22
2NO+1NC slow action

E1
1NO-1NC electronic, PNP

CONDUIT ENTRY



Threaded conduit entry

M2	M20x1.5 (standard)
	PG 13.5

With cable gland

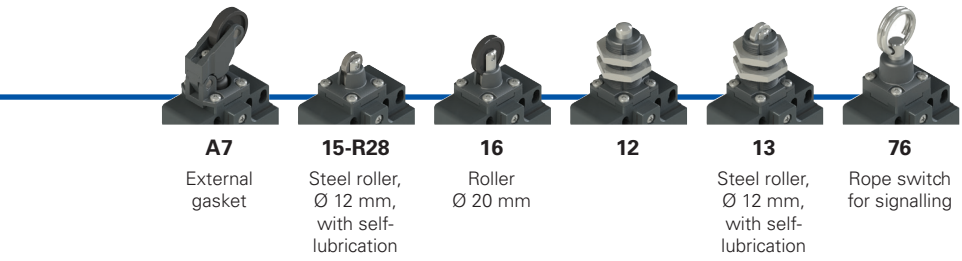
K123	for cables Ø 6 … 12 mm on the right
K223	for cables Ø 6 … 12 mm on the left
K127	for cables Ø 3 … 7 mm on the right
K227	for cables Ø 3 … 7 mm on the left

With M12 metal connector

K41	8-pole, right
K42	8-pole, left
K51	5-pole, right
K52	5-pole, left

Product options

Sold separately as accessory



A7 External gasket

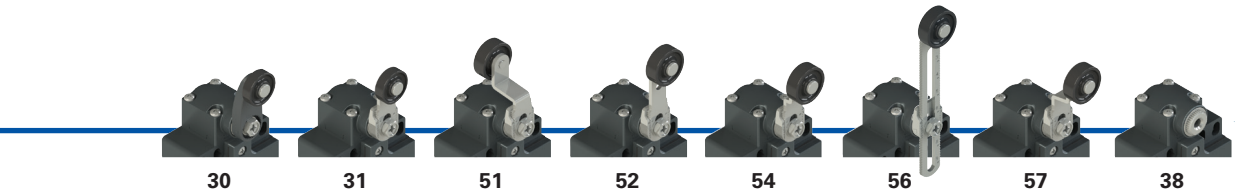
15-R28 Steel roller, Ø 12 mm, with self-lubrication

16 Roller Ø 20 mm

12

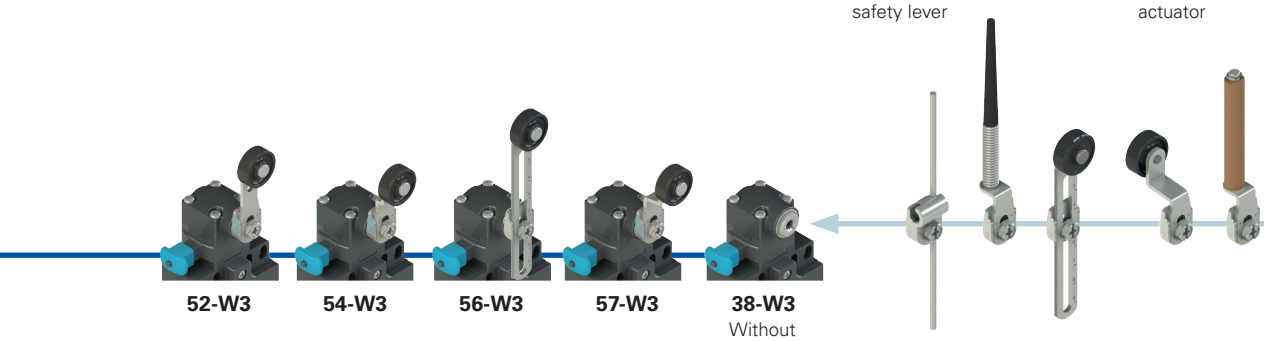
13 Steel roller, Ø 12 mm, with self-lubrication

76 Rope switch for signalling



30 **31** **51** **52** **54** **56** Adjustable safety lever **57** **38** Without actuator

SEPARATE ACTUATORS
See page 101



52-W3 **54-W3** **56-W3** **57-W3** **38-W3** Without actuator

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 | options

FZ 502-W3GM2K51R23T6

Housing

FZ	metal, two conduit entries

Contact block

5	1NO+1NC, snap action
6	1NO+1NC, slow action
7	1NO+1NC, slow action, make before break
...	...

Actuators

01	short plunger
02	roller lever
05	angled lever with roller
...	...

Reset

	without reset (standard)
W3	simultaneous reset
W4	simultaneous reset, increased force

Contact type

	silver contacts (standard)
G	silver contacts, 1 µm gold coating
G1	silver contacts, 2.5 µm gold coating (not for contact block 2, 20, 21, 22)

Threaded conduit entry

M2	M20x1.5 (standard)
	PG 13.5

Pre-installed cable glands or connectors

	no cable gland or connector (standard)
K123	cable gland for cables Ø 6 ... 12 mm on the right
K51	M12 metal connector, 5-pole, right

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

Ambient temperature

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

Rollers

	standard roller
R28	Steel, with self-lubrication, Ø 12 mm (for actuators A4, 15)
R44	316L stainless steel, Ø 12 mm (for actuators A4, 13, 15)
R23	Steel, with self-lubrication, Ø 14 mm (for actuators A2, 02, A5, 05, 30, 31, 51, 52, 54, 55, 56, 57)
R43	316L stainless steel, Ø 14 mm (for actuators A2, 02, A5, 05, 30, 31, 51, 52, 54, 55, 56, 57)
R24	Steel, with self-lubrication, Ø 20 mm (for actuators 30, 31, 51, 52, 54, 55, 56, 57)
R41	316L stainless steel, Ø 20 mm (for actuators 30, 31, 51, 52, 54, 55, 56, 57)
R36	Steel, with self-lubrication, Ø 16 mm (for actuators 30, 31, 51, 52, 54, 55, 56, 57)
R25	technopolymer, Ø 35 mm (for actuators 30, 31, 51, 52, 54, 55, 56, 57)
R5	rubber, Ø 40 mm (for actuators 30, 31, 51, 52, 54, 55, 56, 57)
R26	rubber, Ø 50 mm (for actuators 51, 52, 54, 55, 56, 57)
R27	rubber, protruding, Ø 50 mm (for actuators 55, 56)

Main features

- Metal housing, two conduit entries
- Protection degree IP67
- 17 contact blocks available
- 44 actuators available
- Versions with M12 connector
- Versions with gold-plated silver contacts

Quality marks:

IMQ approval:	EG610
UL approval:	E131787
CCC approval:	2021000305000101
EAC approval:	RU C-IT.УТ03.B.00035/19

Technical data

Housing

Metal housing, powder-coated	
Two threaded conduit entries:	M20x1.5 (standard)
Protection degree:	IP67 acc. to EN 60529 (with cable gland of equal or higher protection degree)

General data

Ambient temperature:	-25°C … +80°C (standard) -40°C … +80°C (T6 option)
Max. actuation frequency:	3600 operating cycles/hour
Mechanical endurance:	20 million operating cycles
Mounting position:	any
Safety parameter B_{10D}:	40,000,000 for NC contacts
Mechanical interlock, not coded:	type 1 acc. to EN ISO 14119
Tightening torques for installation:	see page 231
Wire cross-sections and wire stripping lengths:	see page 249

In compliance with standards:
IEC 60947-5-1, EN 60947-5-1, EN 60947-1, IEC 60204-1, EN 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN 60529, EN IEC 63000, UL 508, CSA C22.2 No. 14.
Approvals:
IEC 60947-5-1, UL 508, CSA C22.2 No. 14, GB/T14048.5.

Compliance with the requirements of:
Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/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 required by **EN ISO 14119, paragraph 5.4** for specific interlock applications and **EN ISO 13849-2 tables D3** (well-tried components) and **D.8** (fault exclusions) for safety applications in general. Actuate the switch **at least up to the positive opening travel** shown in the travel diagrams on page 232. 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 227 to 242.**

	Electrical data		Utilization category
without connector	Thermal current (I_{th}):	10 A	
	Rated insulation voltage (U_i):	500 Vac 600 Vdc 400 Vac 500 Vdc (contact blocks 2, 11, 12, 20, 21, 22)	Alternating current: AC15 (50÷60 Hz) Ue (V) 250 400 500 Ie (A) 6 4 1
	Rated impulse withstand voltage (U_{imp}):	6 kV 4 kV (contact blocks 20, 21, 22)	Direct current: DC13 Ue (V) 24 125 250 Ie (A) 3 0.55 0.3
	Conditional short circuit current:	1000 A acc. to EN 60947-5-1	
	Protection against short circuits:	type aM fuse 10 A 500 V	
	Pollution degree:	3	
with M12 connector, 5-pole	Thermal current (I_{th}):	4 A	Alternating current: AC15 (50÷60 Hz) Ue (V) 24 120 250 Ie (A) 4 4 4
	Rated insulation voltage (U_i):	250 Vac 300 Vdc	
	Protection against short circuits:	type gG fuse 4 A 500 V	Direct current: DC13 Ue (V) 24 125 250 Ie (A) 3 0.55 0.3
	Pollution degree:	3	
with M12 connector, 8-pole	Thermal current (I_{th}):	2 A	Alternating current: AC15 (50÷60 Hz) Ue (V) 24 Ie (A) 2
	Rated insulation voltage (U_i):	30 Vac 36 Vdc	
	Protection against short circuits:	type gG fuse 2 A 500 V	Direct current: DC13 Ue (V) 24 Ie (A) 2
	Pollution degree:	3	

Features approved by IMQ

Rated insulation voltage (U_i):	500 Vac 400 Vac (for contact blocks 2, 11, 12, 20, 21, 22, 28, 29, 30, 37, 33, 34)
Conventional free air thermal current (I_{th}):	10 A
Protection against short circuits:	type aM fuse 10 A 500 V
Rated impulse withstand voltage (U_{imp}):	6 kV 4 kV (for contact blocks 20, 21, 22, 28, 29, 30, 33, 34)
Protection degree of the housing: MV terminals (screw terminals)	IP67
Pollution degree:	3
Utilization category:	AC15
Operating voltage (U_e):	400 Vac (50 Hz)
Operating current (I_e):	3 A

Forms of the contact element: Za, Za+Za, X+X, Zb, Y+Y, Y+Y+X, Y+Y+Y, Y+X+X, Y, X.
Positive opening of contacts on contact blocks 5, 6, 7, 8, 9, 11, 13, 14, 16, 17, 18, 19, 20, 21, 22, 28, 29, 30, 33, 34, 37, 38, 39, 66.
In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

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

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

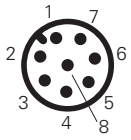
For all contact blocks except 2 and 3 use 60 or 75°C copper (Cu) conductors, rigid or flexible, wire size 12, 14 AWG. Tightening torque for terminal screws of 7.1 lb in (0.8 Nm).

For contact blocks 2 and 3 use 60 or 75°C copper (Cu) conductors, rigid or flexible, wire size 14 AWG. Tightening torque for terminal screws of 12 lb in (1.4 Nm).

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

Wiring diagram for M12 connectors

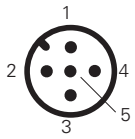
Contact block 2 — 2x(1NO-1NC)



M12 connector, 8-pole

Contacts	Pin no.
NO	3-4
NC	5-6
NC	7-8
NO	1-2

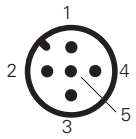
Contact block 5 — 1NO+1NC



M12 connector, 5-pole

Contacts	Pin no.
NC	1-2
NO	3-4
ground	5

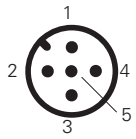
Contact block 6 — 1NO+1NC



M12 connector, 5-pole

Contacts	Pin no.
NC	1-2
NO	3-4
ground	5

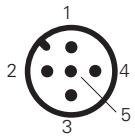
Contact block 7 — 1NO+1NC



M12 connector, 5-pole

Contacts	Pin no.
NC	1-2
NO	3-4
ground	5

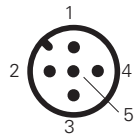
Contact block 9 — 2NC



M12 connector, 5-pole

Contacts	Pin no.
NC	1-2
NC	3-4
ground	5

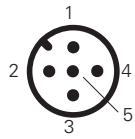
Contact block 10 — 2NO



M12 connector, 5-pole

Contacts	Pin no.
NO	1-2
NO	3-4
ground	5

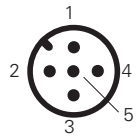
Contact block 11 — 2NC



M12 connector, 5-pole

Contacts	Pin no.
NC	1-2
NC	3-4
ground	5

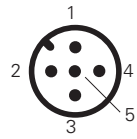
Contact block 12 — 2NO



M12 connector, 5-pole

Contacts	Pin no.
NO	1-2
NO	3-4
ground	5

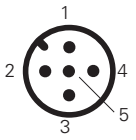
Contact block 13 — 2NC



M12 connector, 5-pole

Contacts	Pin no.
NC (1°)	1-2
NC (2°)	3-4
ground	5

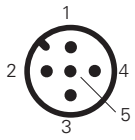
Contact block 14 — 2NC



M12 connector, 5-pole

Contacts	Pin no.
NC (1°)	1-2
NC (2°)	3-4
ground	5

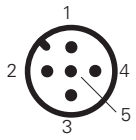
Contact block 15 — 2NO



M12 connector, 5-pole

Contacts	Pin no.
NO (1°)	1-2
NO (2°)	3-4
ground	5

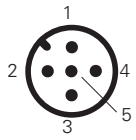
Contact block 16 — 2NC



M12 connector, 5-pole

Contacts	Pin no.
NC, lever to the right	1-2
NC, lever to the left	3-4
ground	5

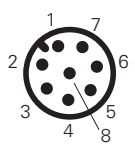
Contact block 18 — 1NO+1NC



M12 connector, 5-pole

Contacts	Pin no.
NC	1-2
NO	3-4
ground	5

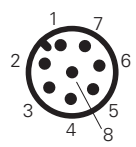
Contact block 20 — 1NO+2NC



M12 connector, 8-pole

Contacts	Pin no.
NC	3-4
NC	5-6
NO	7-8
ground	1

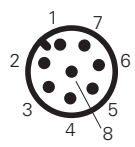
Contact block 21 — 3NC



M12 connector, 8-pole

Contacts	Pin no.
NC	3-4
NC	5-6
NC	7-8
ground	1

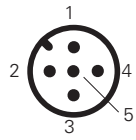
Contact block 22 — 2NO+1NC



M12 connector, 8-pole

Contacts	Pin no.
NC	3-4
NC	5-6
NO	7-8
ground	1

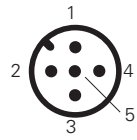
Contact block 33 — 1NO+1NC



M12 connector, 5-pole

Contacts	Pin no.
NC	1-2
NO	3-4
ground	5

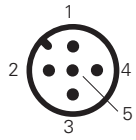
Contact block 34 — 2NC



M12 connector, 5-pole

Contacts	Pin no.
NC	1-2
NC	3-4
ground	5

Contact block E1 — PNP

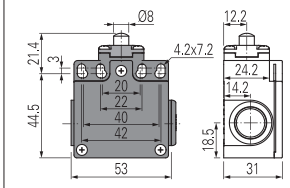
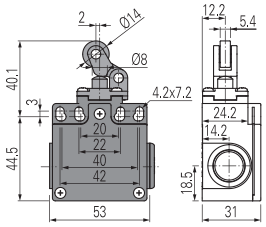
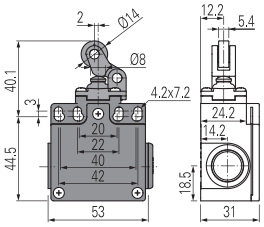
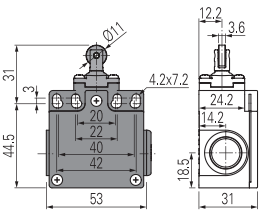


M12 connector, 5-pole

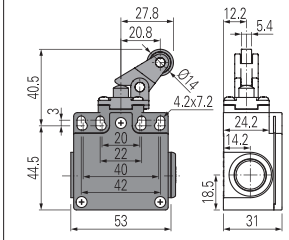
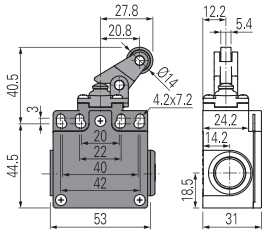
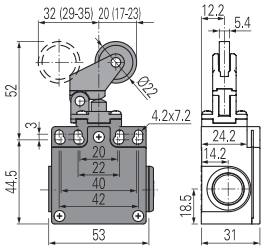
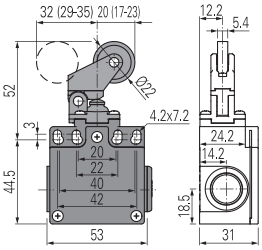
Contacts	Pin no.
+	1
-	3
NC	2
NO	4
ground	5

FZ series position switches

Contact type
- R = snap action
- L = slow action
- LO = slow action, make before break
- LS = slow action, shifted
- LV = slow action, shifted and spaced
- LI = slow action, independent
- LA = slow action, close
- = electronic, PNP

Contact block				With steel roller with self-lubrication or 316L stainless steel on request		External gasket With steel roller with self-lubrication or 316L stainless steel on request		External gasket	
									
2	R	FZ 201-M2	2x(1NO-1NC)	FZ 202-M2	2x(1NO-1NC)	FZ 2A2-M2	2x(1NO-1NC)	FZ 2A4-M2	2x(1NO-1NC)
5	R	FZ 501-M2	1NO+1NC	FZ 502-M2	1NO+1NC	FZ 5A2-M2	1NO+1NC	FZ 5A4-M2	1NO+1NC
6	L	FZ 601-M2	1NO+1NC	FZ 602-M2	1NO+1NC	FZ 6A2-M2	1NO+1NC	FZ 6A4-M2	1NO+1NC
7	LO	FZ 701-M2	1NO+1NC	FZ 702-M2	1NO+1NC	FZ 7A2-M2	1NO+1NC	FZ 7A4-M2	1NO+1NC
9	L	FZ 901-M2	2NC	FZ 902-M2	2NC	FZ 9A2-M2	2NC	FZ 9A4-M2	2NC
10	L	FZ 1001-M2	2NO	FZ 1002-M2	2NO	FZ 10A2-M2	2NO	FZ 10A4-M2	2NO
11	R	FZ 1101-M2	2NC	FZ 1102-M2	2NC	FZ 11A2-M2	2NC	FZ 11A4-M2	2NC
12	R	FZ 1201-M2	2NO	FZ 1202-M2	2NO	FZ 12A2-M2	2NO	FZ 12A4-M2	2NO
13	LV	FZ 1301-M2	2NC	FZ 1302-M2	2NC	FZ 13A2-M2	2NC	FZ 13A4-M2	2NC
14	LS	FZ 1401-M2	2NC	FZ 1402-M2	2NC	FZ 14A2-M2	2NC	FZ 14A4-M2	2NC
15	LS	FZ 1501-M2	2NO	FZ 1502-M2	2NO	FZ 15A2-M2	2NO	FZ 15A4-M2	2NO
18	LA	FZ 1801-M2	1NO+1NC	FZ 1802-M2	1NO+1NC	FZ 18A2-M2	1NO+1NC	FZ 18A4-M2	1NO+1NC
20	L	FZ 2001-M2	1NO+2NC	FZ 2002-M2	1NO+2NC	FZ 20A2-M2	1NO+2NC	FZ 20A4-M2	1NO+2NC
21	L	FZ 2101-M2	3NC	FZ 2102-M2	3NC	FZ 21A2-M2	3NC	FZ 21A4-M2	3NC
22	L	FZ 2201-M2	2NO+1NC	FZ 2202-M2	2NO+1NC	FZ 22A2-M2	2NO+1NC	FZ 22A4-M2	2NO+1NC
E1		FZ E101-M2	1NO-1NC	FZ E102-M2	1NO-1NC	FZ E1A2-M2	1NO-1NC	FZ E1A4-M2	1NO-1NC
Max. speed		page 231 - type 4		page 231 - type 3		page 231 - type 3		page 231 - type 5	
Actuating force		8 N (25 N →)		6 N (25 N →)		4.3 N (25 N →)		4.3 N (25 N →)	
Travel diagrams		page 232 - group 1		page 232 - group 2		page 232 - group 2		page 232 - group 1	

Contact type
- R = snap action
- L = slow action
- LO = slow action, make before break
- LS = slow action, shifted
- LV = slow action, shifted and spaced
- LI = slow action, independent
- LA = slow action, close
- = electronic, PNP

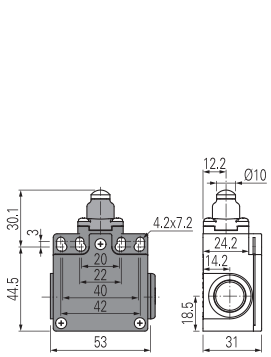
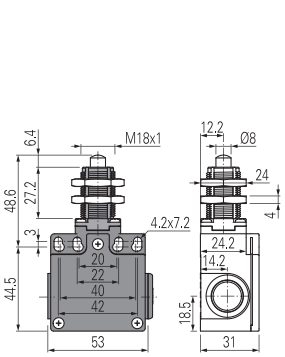
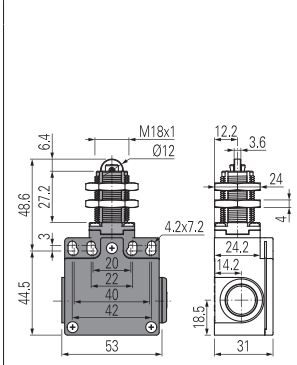
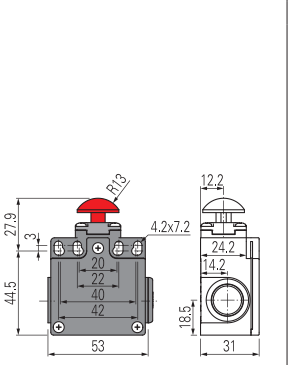
Contact block		With steel roller with self-lubrication or 316L stainless steel on request		External gasket With steel roller with self-lubrication or 316L stainless steel on request				External gasket	
									
2	R	FZ 205-M2	2x(1NO-1NC)	FZ 2A5-M2	2x(1NO-1NC)	FZ 207-M2	2x(1NO-1NC)	FZ 2A7-M2	2x(1NO-1NC)
5	R	FZ 505-M2	1NO+1NC	FZ 5A5-M2	1NO+1NC	FZ 507-M2	1NO+1NC	FZ 5A7-M2	1NO+1NC
6	L	FZ 605-M2	1NO+1NC	FZ 6A5-M2	1NO+1NC	FZ 607-M2	1NO+1NC	FZ 6A7-M2	1NO+1NC
7	LO	FZ 705-M2	1NO+1NC	FZ 7A5-M2	1NO+1NC	FZ 707-M2	1NO+1NC	FZ 7A7-M2	1NO+1NC
9	L	FZ 905-M2	2NC	FZ 9A5-M2	2NC	FZ 907-M2	2NC	FZ 9A7-M2	2NC
10	L	FZ 1005-M2	2NO	FZ 10A5-M2	2NO	FZ 1007-M2	2NO	FZ 10A7-M2	2NO
11	R	FZ 1105-M2	2NC	FZ 11A5-M2	2NC	FZ 1107-M2	2NC	FZ 11A7-M2	2NC
12	R	FZ 1205-M2	2NO	FZ 12A5-M2	2NO	FZ 1207-M2	2NO	FZ 12A7-M2	2NO
13	LV	FZ 1305-M2	2NC	FZ 13A5-M2	2NC	FZ 1307-M2	2NC	FZ 13A7-M2	2NC
14	LS	FZ 1405-M2	2NC	FZ 14A5-M2	2NC	FZ 1407-M2	2NC	FZ 14A7-M2	2NC
15	LS	FZ 1505-M2	2NO	FZ 15A5-M2	2NO	FZ 1507-M2	2NO	FZ 15A7-M2	2NO
18	LA	FZ 1805-M2	1NO+1NC	FZ 18A5-M2	1NO+1NC	FZ 1807-M2	1NO+1NC	FZ 18A7-M2	1NO+1NC
20	L	FZ 2005-M2	1NO+2NC	FZ 20A5-M2	1NO+2NC	FZ 2007-M2	1NO+2NC	FZ 20A7-M2	1NO+2NC
21	L	FZ 2105-M2	3NC	FZ 21A5-M2	3NC	FZ 2107-M2	3NC	FZ 21A7-M2	3NC
22	L	FZ 2205-M2	2NO+1NC	FZ 22A5-M2	2NO+1NC	FZ 2207-M2	2NO+1NC	FZ 22A7-M2	2NO+1NC
E1		FZ E105-M2	1NO-1NC	FZ E1A5-M2	1NO-1NC	FZ E107-M2	1NO-1NC	FZ E1A7-M2	1NO-1NC
Max. speed		page 231 - type 3		page 231 - type 3		page 231 - type 3		page 231 - type 3	
Actuating force		6 N (25 N →)		4.3 N (25 N →)		4 N (25 N →)		3 N (25 N →)	
Travel diagrams		page 232 - group 2		page 232 - group 2		page 232 - group 3		page 232 - group 3	

All values in the drawings are in mm

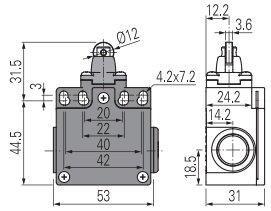
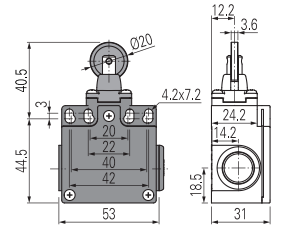
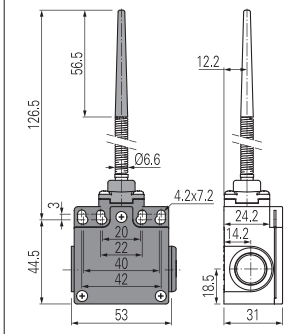
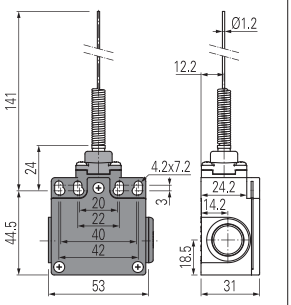
Accessories See page 207

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

Contact type
R = snap action
L = slow action
LO = slow action, make before break
LS = slow action, shifted
LV = slow action, shifted and spaced
LI = slow action, independent
LA = slow action, close
= electronic, PNP

Contact block		External gasket							
									
2	R	FZ 208-M2	2x(1NO-1NC)	FZ 212-M2	2x(1NO-1NC)	FZ 213-M2	2x(1NO-1NC)	FZ 214-M2	2x(1NO-1NC)
5	R	FZ 508-M2 →	1NO+1NC	FZ 512-M2 →	1NO+1NC	FZ 513-M2 →	1NO+1NC	FZ 514-M2 →	1NO+1NC
6	L	FZ 608-M2 →	1NO+1NC	FZ 612-M2 →	1NO+1NC	FZ 613-M2 →	1NO+1NC	FZ 614-M2 →	1NO+1NC
7	LO	FZ 708-M2 →	1NO+1NC	FZ 712-M2 →	1NO+1NC	FZ 713-M2 →	1NO+1NC	FZ 714-M2 →	1NO+1NC
9	L	FZ 908-M2 →	2NC	FZ 912-M2 →	2NC	FZ 913-M2 →	2NC	FZ 914-M2 →	2NC
10	L	FZ 1008-M2	2NO	FZ 1012-M2	2NO	FZ 1013-M2	2NO	FZ 1014-M2	2NO
11	R	FZ 1108-M2 →	2NC	FZ 1112-M2 →	2NC	FZ 1113-M2 →	2NC	FZ 1114-M2 →	2NC
12	R	FZ 1208-M2	2NO	FZ 1212-M2	2NO	FZ 1213-M2	2NO	FZ 1214-M2	2NO
13	LV	FZ 1308-M2 →	2NC	FZ 1312-M2 →	2NC	FZ 1313-M2 →	2NC	FZ 1314-M2 →	2NC
14	LS	FZ 1408-M2 →	2NC	FZ 1412-M2 →	2NC	FZ 1413-M2 →	2NC	FZ 1414-M2 →	2NC
15	LS	FZ 1508-M2	2NO	FZ 1512-M2	2NO	FZ 1513-M2	2NO	FZ 1514-M2	2NO
18	LA	FZ 1808-M2 →	1NO+1NC	FZ 1812-M2 →	1NO+1NC	FZ 1813-M2 →	1NO+1NC	FZ 1814-M2 →	1NO+1NC
20	L	FZ 2008-M2 →	1NO+2NC	FZ 2012-M2 →	1NO+2NC	FZ 2013-M2 →	1NO+2NC	FZ 2014-M2 →	1NO+2NC
21	L	FZ 2108-M2 →	3NC	FZ 2112-M2 →	3NC	FZ 2113-M2 →	3NC	FZ 2114-M2 →	3NC
22	L	FZ 2208-M2 →	2NO+1NC	FZ 2212-M2 →	2NO+1NC	FZ 2213-M2 →	2NO+1NC	FZ 2214-M2 →	2NO+1NC
E1		FZ E108-M2	1NO-1NC	FZ E112-M2	1NO-1NC	FZ E113-M2	1NO-1NC	FZ E114-M2	1NO-1NC
Max. speed		page 231 - type 4		page 231 - type 4		page 231 - type 2		page 231 - type 4	
Actuating force		8 N (25 N →)		8 N (25 N →)		8 N (25 N →)		8 N (25 N →)	
Travel diagrams		page 232 - group 1		page 232 - group 1		page 232 - group 1		page 232 - group 1	

Contact type
R = snap action
L = slow action
LO = slow action, make before break
LS = slow action, shifted
LV = slow action, shifted and spaced
LI = slow action, independent
LA = slow action, close
= electronic, PNP

Contact block						External gasket Spring rod		External gasket Spring rod	
									
2	R	FZ 215-M2R28	2x(1NO-1NC)	FZ 216-M2	2x(1NO-1NC)	FZ 220-M2	2x(1NO-1NC)	FZ 221-M2	2x(1NO-1NC)
5	R	FZ 515-M2R28 →	1NO+1NC	FZ 516-M2 →	1NO+1NC	FZ 520-M2	1NO+1NC	FZ 521-M2	1NO+1NC
6	L	FZ 615-M2R28 →	1NO+1NC	FZ 616-M2 →	1NO+1NC	/		/	
7	LO	FZ 715-M2R28 →	1NO+1NC	FZ 716-M2 →	1NO+1NC	/		/	
9	L	FZ 915-M2R28 →	2NC	FZ 916-M2 →	2NC	/		/	
10	L	FZ 1015-M2R28	2NO	FZ 1016-M2	2NO	FZ 1020-M2	2NO	FZ 1021-M2	2NO
11	R	FZ 1115-M2R28 →	2NC	FZ 1116-M2 →	2NC	/		/	
12	R	FZ 1215-M2R28	2NO	FZ 1216-M2	2NO	FZ 1220-M2	2NO	FZ 1221-M2	2NO
13	LV	FZ 1315-M2R28 →	2NC	FZ 1316-M2 →	2NC	/		/	
14	LS	FZ 1415-M2R28 →	2NC	FZ 1416-M2 →	2NC	/		/	
15	LS	FZ 1515-M2R28	2NO	FZ 1516-M2	2NO	/		/	
18	LA	FZ 1815-M2R28 →	1NO+1NC	FZ 1816-M2 →	1NO+1NC	FZ 1820-M2	1NO+1NC	FZ 1821-M2	1NO+1NC
20	L	FZ 2015-M2R28 →	1NO+2NC	FZ 2016-M2 →	1NO+2NC	FZ 2020-M2	1NO+2NC	FZ 2021-M2	1NO+2NC
21	L	FZ 2115-M2R28 →	3NC	FZ 2116-M2 →	3NC	FZ 2120-M2	3NC	FZ 2121-M2	3NC
22	L	FZ 2215-M2R28 →	2NO+1NC	FZ 2216-M2 →	2NO+1NC	FZ 2220-M2	2NO+1NC	FZ 2221-M2	2NO+1NC
E1		FZ E115-M2R28	1NO-1NC	FZ E116-M2	1NO-1NC	FZ E120-M2	1NO-1NC	FZ E121-M2	1NO-1NC
Max. speed		page 231 - type 2		page 231 - type 2		1 m/s		1 m/s	
Actuating force		8 N (25 N →)		8 N (25 N →)		0.07 Nm		0.07 Nm	
Travel diagrams		page 232 - group 1		page 232 - group 1		page 232 - group 4		page 232 - group 4	

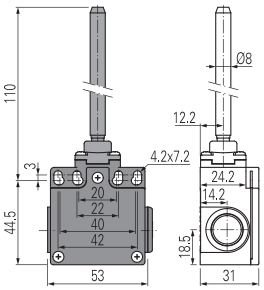
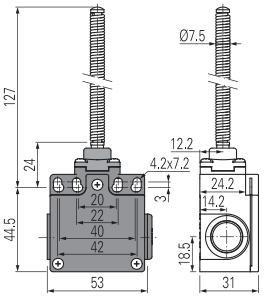
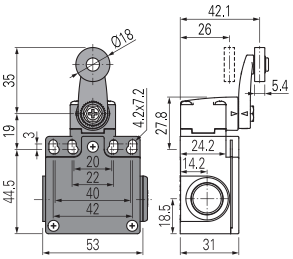
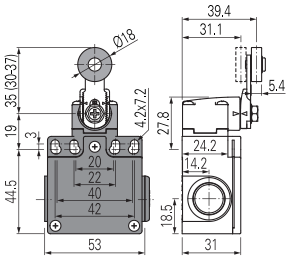
All values in the drawings are in mm

Accessories See page 207

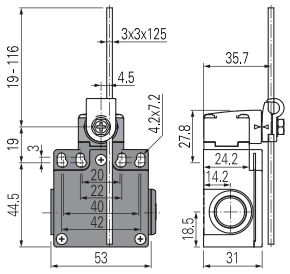
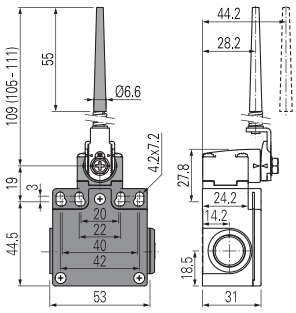
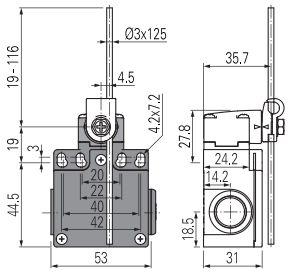
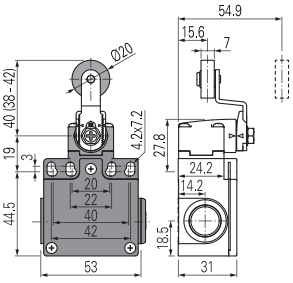
→ The 2D and 3D files are available at **www.pizzato.com**

FZ series position switches

Contact type
R = snap action
L = slow action
LO = slow action, make before break
LS = slow action, shifted
LV = slow action, shifted and spaced
LI = slow action, independent
LA = slow action, close
= electronic, PNP

Contact block		External gasket Rigid rod		External gasket Spring rod		With Ø 20 mm steel roller with self-lubrication or 316L stainless steel on request		Other rollers available. See page 102	
									
2	R	FZ 222-M2	2x(1NO-1NC)	FZ 225-M2	2x(1NO-1NC)	FZ 230-M2	2x(1NO-1NC)	FZ 231-M2	2x(1NO-1NC)
5	R	/		FZ 525-M2	1NO+1NC	FZ 530-M2 →	1NO+1NC	FZ 531-M2 →	1NO+1NC
6	L	/		/		FZ 630-M2 →	1NO+1NC	FZ 631-M2 →	1NO+1NC
7	LO	/		/		FZ 730-M2 →	1NO+1NC	FZ 731-M2 →	1NO+1NC
9	L	/		/		FZ 930-M2 →	2NC	FZ 931-M2 →	2NC
10	L	FZ 1022-M2	2NO	FZ 1025-M2	2NO	FZ 1030-M2	2NO	FZ 1031-M2	2NO
11	R	/		/		FZ 1130-M2 →	2NC	FZ 1131-M2 →	2NC
12	R	FZ 1222-M2	2NO	FZ 1225-M2	2NO	FZ 1230-M2	2NO	FZ 1231-M2	2NO
13	LV	/		/		FZ 1330-M2 →	2NC	FZ 1331-M2 →	2NC
14	LS	/		/		FZ 1430-M2 →	2NC	FZ 1431-M2 →	2NC
15	LS	/		/		FZ 1530-M2	2NO	FZ 1531-M2	2NO
16	LI	/		/		FZ 1630-M2 →	2NC	FZ 1631-M2 →	2NC
18	LA	FZ 1822-M2 →	1NO+1NC	FZ 1825-M2	1NO+1NC	FZ 1830-M2 →	1NO+1NC	FZ 1831-M2 →	1NO+1NC
20	L	FZ 2022-M2 →	1NO+2NC	FZ 2025-M2	1NO+2NC	FZ 2030-M2 →	1NO+2NC	FZ 2031-M2 →	1NO+2NC
21	L	FZ 2122-M2 →	3NC	FZ 2125-M2	3NC	FZ 2130-M2 →	3NC	FZ 2131-M2 →	3NC
22	L	FZ 2222-M2 →	2NO+1NC	FZ 2225-M2	2NO+1NC	FZ 2230-M2 →	2NO+1NC	FZ 2231-M2 →	2NO+1NC
E1		FZ E122-M2	1NO-1NC	FZ E125-M2	1NO-1NC	FZ E130-M2	1NO-1NC	FZ E131-M2	1NO-1NC
Max. speed		1 m/s		1 m/s		page 231 - type 1		page 231 - type 1	
Actuating force		0.12 Nm (0.25 Nm →)		0.12 Nm		0.06 Nm (0.25 Nm →)		0.06 Nm (0.25 Nm →)	
Travel diagrams		page 232 - group 4		page 232 - group 4		page 232 - group 5		page 232 - group 5	

Contact type
R = snap action
L = slow action
LO = slow action, make before break
LS = slow action, shifted
LV = slow action, shifted and spaced
LI = slow action, independent
LA = slow action, close
= electronic, PNP

Contact block		Square rod, 3x3 mm			Round rod, Ø 3 mm, stainless steel		Other rollers available. See page 102	
								
2	R	FZ 233-M2	FZ 234-M2	2x(1NO-1NC)	FZ 250-M2	2x(1NO-1NC)	FZ 251-M2	2x(1NO-1NC)
5	R	FZ 533-M2	FZ 534-M2	1NO+1NC	FZ 550-M2	1NO+1NC	FZ 551-M2 →	1NO+1NC
6	L	FZ 633-M2	FZ 634-M2	1NO+1NC	FZ 650-M2	1NO+1NC	FZ 651-M2 →	1NO+1NC
7	LO	FZ 733-M2	FZ 734-M2	1NO+1NC	FZ 750-M2	1NO+1NC	FZ 751-M2 →	1NO+1NC
9	L	FZ 933-M2	FZ 934-M2	2NC	FZ 950-M2	2NC	FZ 951-M2 →	2NC
10	L	FZ 1033-M2	FZ 1034-M2	2NO	FZ 1050-M2	2NO	FZ 1051-M2	2NO
11	R	FZ 1133-M2	FZ 1134-M2	2NC	FZ 1150-M2	2NC	FZ 1151-M2 →	2NC
12	R	FZ 1233-M2	FZ 1234-M2	2NO	FZ 1250-M2	2NO	FZ 1251-M2	2NO
13	LV	FZ 1333-M2	FZ 1334-M2	2NC	FZ 1350-M2	2NC	FZ 1351-M2 →	2NC
14	LS	FZ 1433-M2	FZ 1434-M2	2NC	FZ 1450-M2	2NC	FZ 1451-M2 →	2NC
15	LS	FZ 1533-M2	FZ 1534-M2	2NO	FZ 1550-M2	2NO	FZ 1551-M2	2NO
16	LI	FZ 1633-M2	FZ 1634-M2	2NC	FZ 1650-M2	2NC	FZ 1651-M2 →	2NC
18	LA	FZ 1833-M2	FZ 1834-M2	1NO+1NC	FZ 1850-M2	1NO+1NC	FZ 1851-M2 →	1NO+1NC
20	L	FZ 2033-M2	FZ 2034-M2	1NO+2NC	FZ 2050-M2	1NO+2NC	FZ 2051-M2 →	1NO+2NC
21	L	FZ 2133-M2	FZ 2134-M2	3NC	FZ 2150-M2	3NC	FZ 2151-M2 →	3NC
22	L	FZ 2233-M2	FZ 2234-M2	2NO+1NC	FZ 2250-M2	2NO+1NC	FZ 2251-M2 →	2NO+1NC
E1		FZ E133-M2	FZ E134-M2	1NO-1NC	FZ E150-M2	1NO-1NC	FZ E151-M2	1NO-1NC
Max. speed		1.5 m/s	1.5 m/s		1.5 m/s		page 231 - type 1	
Actuating force		0.06 Nm	0.06 Nm		0.06 Nm		0.06 Nm (0.25 Nm →)	
Travel diagrams		page 232 - group 5	page 232 - group 5		page 232 - group 5		page 232 - group 5	

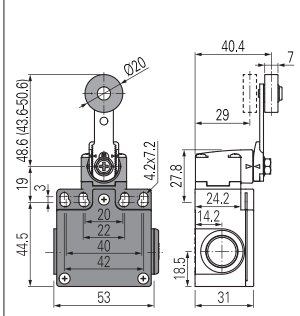
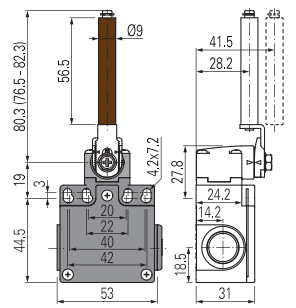
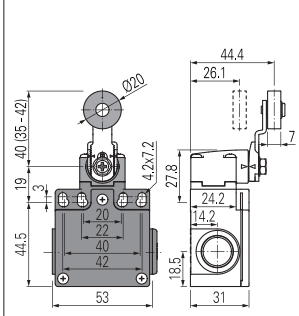
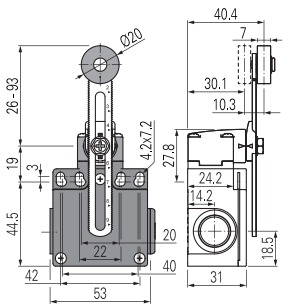
All values in the drawings are in mm

Accessories See page 207

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

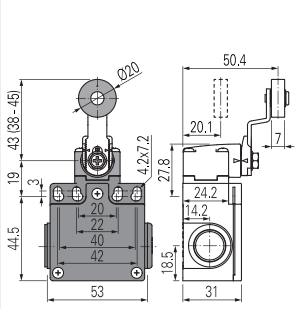
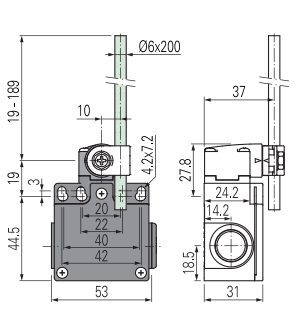
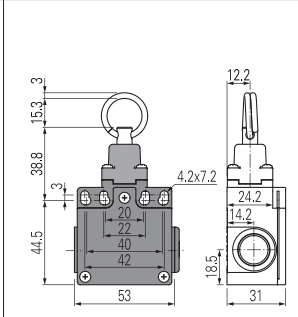
Contact type
R = snap action
L = slow action
LO = slow action, make before break
LS = slow action, shifted
LV = slow action, shifted and spaced
LI = slow action, independent
LA = slow action, close
= electronic, PNP

Contact block

		Other rollers available. See page 102		Porcelain roller		Other rollers available. See page 102		Other rollers available. See page 102	
									
2	R	FZ 252-M2	2x(1NO-1NC)	FZ 253-E0M2	2x(1NO-1NC)	FZ 254-M2	2x(1NO-1NC)	FZ 256-M2	2x(1NO-1NC)
5	R	FZ 552-M2 →	1NO+1NC	FZ 553-E0M2V9 →	1NO+1NC	FZ 554-M2 →	1NO+1NC	FZ 556-M2 →	1NO+1NC
6	L	FZ 652-M2 →	1NO+1NC	FZ 653-E0M2V9 →	1NO+1NC	FZ 654-M2 →	1NO+1NC	FZ 656-M2 →	1NO+1NC
7	LO	FZ 752-M2 →	1NO+1NC	FZ 753-E0M2V9 →	1NO+1NC	FZ 754-M2 →	1NO+1NC	FZ 756-M2 →	1NO+1NC
9	L	FZ 952-M2 →	2NC	FZ 953-E0M2V9 →	2NC	FZ 954-M2 →	2NC	FZ 956-M2 →	2NC
10	L	FZ 1052-M2	2NO	FZ 1053-E0M2V9	2NO	FZ 1054-M2	2NO	FZ 1056-M2	2NO
11	R	FZ 1152-M2 →	2NC	/		FZ 1154-M2 →	2NC	FZ 1156-M2 →	2NC
12	R	FZ 1252-M2	2NO	FZ 1253-E0M2V9	2NO	FZ 1254-M2	2NO	FZ 1256-M2	2NO
13	LV	FZ 1352-M2 →	2NC	FZ 1353-E0M2V9 →	2NC	FZ 1354-M2 →	2NC	FZ 1356-M2 →	2NC
14	LS	FZ 1452-M2 →	2NC	FZ 1453-E0M2V9 →	2NC	FZ 1454-M2 →	2NC	FZ 1456-M2 →	2NC
15	LS	FZ 1552-M2	2NO	FZ 1553-E0M2V9	2NO	FZ 1554-M2	2NO	FZ 1556-M2	2NO
16	LI	FZ 1652-M2 →	2NC	/		FZ 1654-M2 →	2NC	FZ 1656-M2 →	2NC
18	LA	FZ 1852-M2 →	1NO+1NC	FZ 1853-E0M2V9 →	1NO+1NC	FZ 1854-M2 →	1NO+1NC	FZ 1856-M2 →	1NO+1NC
20	L	FZ 2052-M2 →	1NO+2NC	FZ 2053-E0M2V9 →	1NO+2NC	FZ 2054-M2 →	1NO+2NC	FZ 2056-M2 →	1NO+2NC
21	L	FZ 2152-M2 →	3NC	FZ 2153-E0M2V9 →	3NC	FZ 2154-M2 →	3NC	FZ 2156-M2 →	3NC
22	L	FZ 2252-M2 →	2NO+1NC	FZ 2253-E0M2V9 →	2NO+1NC	FZ 2254-M2 →	2NO+1NC	FZ 2256-M2 →	2NO+1NC
E1		FZ E152-M2	1NO-1NC	FZ E153-E0M2V9	1NO-1NC	FZ E154-M2	1NO-1NC	FZ E156-M2	1NO-1NC
Max. speed		page 231 - type 1		0.5 m/s		page 231 - type 1		page 231 - type 1	
Actuating force		0.06 Nm (0.25 Nm →)		0.03 Nm (0.25 Nm →)		0.06 Nm (0.25 Nm →)		0.06 Nm (0.25 Nm →)	
Travel diagrams		page 232 - group 5		page 232 - group 6		page 232 - group 5		page 232 - group 5	

Contact type
R = snap action
L = slow action
LO = slow action, make before break
LS = slow action, shifted
LV = slow action, shifted and spaced
LI = slow action, independent
LA = slow action, close
= electronic, PNP

Contact block

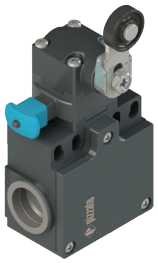
		Other rollers available. See page 102		Glass fibre rod		Rope switch for signalling	
							
2	R	FZ 257-M2	2x(1NO-1NC)	FZ 269-M2	2x(1NO-1NC)	FZ 276-M2	2x(1NO-1NC)
5	R	FZ 557-M2 →	1NO+1NC	FZ 569-M2	1NO+1NC	FZ 576-M2	1NO+1NC
6	L	FZ 657-M2 →	1NO+1NC	FZ 669-M2	1NO+1NC	FZ 676-M2	1NO+1NC
7	LO	FZ 757-M2 →	1NO+1NC	FZ 769-M2	1NO+1NC	FZ 776-M2	1NO+1NC
9	L	FZ 957-M2 →	2NC	FZ 969-M2	2NC	FZ 976-M2	2NO
10	L	FZ 1057-M2	2NO	FZ 1069-M2	2NO	FZ 1076-M2	2NC
11	R	FZ 1157-M2 →	2NC	FZ 1169-M2	2NC	FZ 1176-M2	2NO
12	R	FZ 1257-M2	2NO	FZ 1269-M2	2NO	FZ 1276-M2	2NC
13	LV	FZ 1357-M2 →	2NC	FZ 1369-M2	2NC	FZ 1376-M2	2NO
14	LS	FZ 1457-M2 →	2NC	FZ 1469-M2	2NC	FZ 1476-M2	2NO
15	LS	FZ 1557-M2	2NO	FZ 1569-M2	2NO	FZ 1576-M2	2NC
16	LI	FZ 1657-M2 →	2NC	FZ 1669-M2	2NC	/	
18	LA	FZ 1857-M2 →	1NO+1NC	FZ 1869-M2	1NO+1NC	FZ 1876-M2	1NO+1NC
20	L	FZ 2057-M2 →	1NO+2NC	FZ 2069-M2	1NO+2NC	FZ 2076-M2	2NO+1NC
21	L	FZ 2157-M2 →	3NC	FZ 2169-M2	3NC	FZ 2176-M2	3NO
22	L	FZ 2257-M2 →	2NO+1NC	FZ 2269-M2	2NO+1NC	FZ 2276-M2	1NO+2NC
E1		FZ E157-M2	1NO-1NC	FZ E169-M2	1NO-1NC	/	
Max. speed		page 231 - type 1		1.5 m/s		0.5 m/s	
Actuating force		0.06 Nm (0.25 Nm →)		0.06 Nm		initial 20 N - final 40 N	
Travel diagrams		page 232 - group 5		page 232 - group 5		page 232 - group 7	

(1) Positive opening only with actuator set to max. See page 102.
All values in the drawings are in mm

Accessories See page 207

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

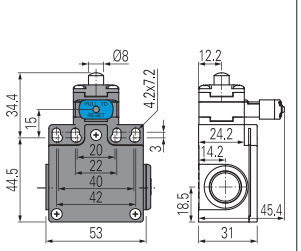
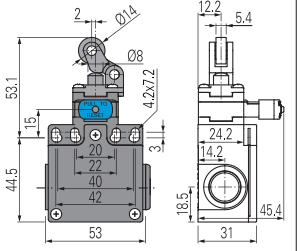
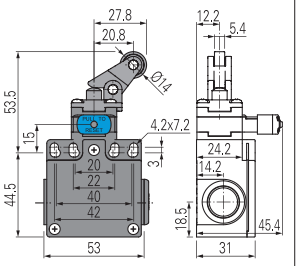
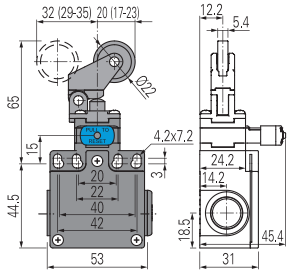
FZ series position switches with reset



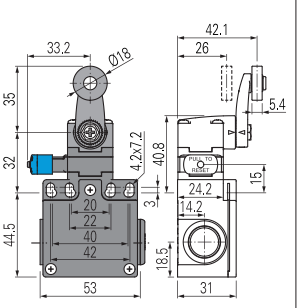
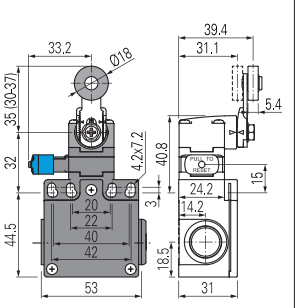
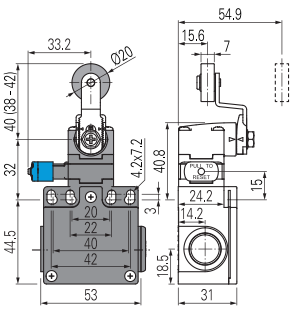
The majority of switches can be equipped with a reset device (option W3) which enables the simultaneous actuation of actuator and contact block. The device is a module that is mounted between the body and the head of the switch that can be rotated independently from the head. The reset device has the following advantages:

- can be integrated into the majority of standard actuator heads;
- contact blocks with snap action are no more necessary because the tripping movement is executed by the reset device itself;
- can be rotated independently from the head ensuring maximum flexibility during installation;
- can be delivered with two different actuating forces: standard and increased for vibration applications;
- mechanical endurance: 1 million operating cycles.

Contact type
R = snap action
L = slow action

Contact block								
				With steel roller with self-lubrication or 316L stainless steel on request 		With steel roller with self-lubrication or 316L stainless steel on request 		
2	R	FZ 201-W3M2	2x(1NO-1NC)	FZ 202-W3M2	2x(1NO-1NC)	FZ 205-W3M2	2x(1NO-1NC)	FZ 207-W3M2	2x(1NO-1NC)
6	L	FZ 601-W3M2	1NO+1NC	FZ 602-W3M2	1NO+1NC	FZ 605-W3M2	1NO+1NC	FZ 607-W3M2	1NO+1NC
9	L	FZ 901-W3M2	2NC	FZ 902-W3M2	2NC	FZ 905-W3M2	2NC	FZ 907-W3M2	2NC
10	L	FZ 1001-W3M2	2NO	FZ 1002-W3M2	2NO	FZ 1005-W3M2	2NO	FZ 1007-W3M2	2NO
20	L	FZ 2001-W3M2	1NO+2NC	FZ 2002-W3M2	1NO+2NC	FZ 2005-W3M2	1NO+2NC	FZ 2007-W3M2	1NO+2NC
21	L	FZ 2101-W3M2	3NC	FZ 2102-W3M2	3NC	FZ 2105-W3M2	3NC	FZ 2107-W3M2	3NC
22	L	FZ 2201-W3M2	2NO+1NC	FZ 2202-W3M2	2NO+1NC	FZ 2205-W3M2	2NO+1NC	FZ 2207-W3M2	2NO+1NC
Max. speed		page 231 - type 4		page 231 - type 3		page 231 - type 3		page 231 - type 3	
Actuating force		4.5 N (25 N →)		4 N (25 N →)		4 N (25 N →)		2.5 N (25 N →)	
Travel diagrams		page 231 - group 1		page 231 - group 2		page 231 - group 2		page 231 - group 3	

Contact type
R = snap action
L = slow action

Contact block				With Ø 20 mm steel roller with self-lubrication or 316L stainless steel on request 		Other rollers available. See page 102 		Other rollers available. See page 102 	
2	R	FZ 215-W3M2R28	2x(1NO-1NC)	FZ 230-W3M2	2x(1NO-1NC)	FZ 231-W3M2	2x(1NO-1NC)	FZ 251-W3M2	2x(1NO-1NC)
6	L	FZ 615-W3M2R28	1NO+1NC	FZ 630-W3M2	1NO+1NC	FZ 631-W3M2	1NO+1NC	FZ 651-W3M2	1NO+1NC
9	L	FZ 915-W3M2R28	2NC	FZ 930-W3M2	2NC	FZ 931-W3M2	2NC	FZ 951-W3M2	2NC
10	L	FZ 1015-W3M2R28	2NO	FZ 1030-W3M2	2NO	FZ 1031-W3M2	2NO	FZ 1051-W3M2	2NO
20	L	FZ 2015-W3M2R28	1NO+2NC	FZ 2030-W3M2	1NO+2NC	FZ 2031-W3M2	1NO+2NC	FZ 2051-W3M2	1NO+2NC
21	L	FZ 2115-W3M2R28	3NC	FZ 2130-W3M2	3NC	FZ 2131-W3M2	3NC	FZ 2151-W3M2	3NC
22	L	FZ 2215-W3M2R28	2NO+1NC	FZ 2230-W3M2	2NO+1NC	FZ 2231-W3M2	2NO+1NC	FZ 2251-W3M2	2NO+1NC
Max. speed		page 231 - type 2		page 231 - type 1		page 231 - type 1		page 231 - type 1	
Actuating force		4.5 N (25 N →)		0.07 Nm (0.25 Nm →)		0.07 Nm (0.25 Nm →)		0.07 Nm (0.25 Nm →)	
Travel diagrams		page 231 - group 1		page 231 - group 4		page 231 - group 4		page 231 - group 4	

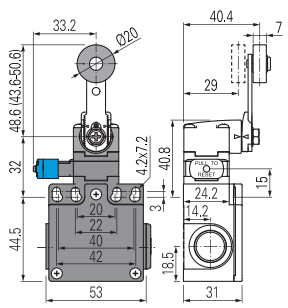
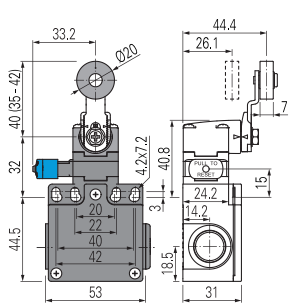
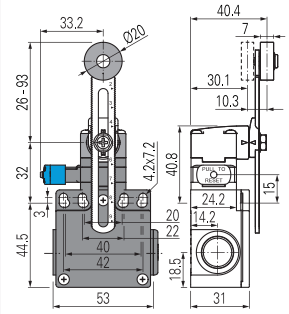
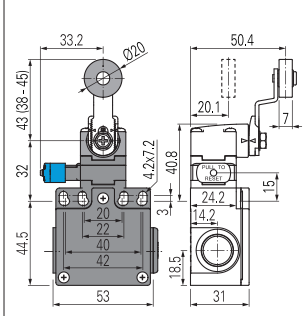
All values in the drawings are in mm

Accessories See page 207

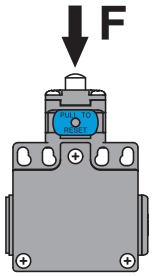
→ The 2D and 3D files are available at **www.pizzato.com**

Contact type
R = snap action
L = slow action

Contact block

		Other rollers available. See page 102	Other rollers available. See page 102	Other rollers available. See page 102	Other rollers available. See page 102
					
2	R	FZ 252-W3M2 2x(1NO-1NC)	FZ 254-W3M2 2x(1NO-1NC)	FZ 256-W3M2 2x(1NO-1NC)	FZ 257-W3M2 2x(1NO-1NC)
6	L	FZ 652-W3M2 → 1NO+1NC	FZ 654-W3M2 → 1NO+1NC	FZ 656-W3M2 → 1NO+1NC	FZ 657-W3M2 → 1NO+1NC
9	L	FZ 952-W3M2 → 2NC	FZ 954-W3M2 → 2NC	FZ 956-W3M2 → 2NC	FZ 957-W3M2 → 2NC
10	L	FZ 1052-W3M2 2NO	FZ 1054-W3M2 2NO	FZ 1056-W3M2 2NO	FZ 1057-W3M2 2NO
20	L	FZ 2052-W3M2 → 1NO+2NC	FZ 2054-W3M2 → 1NO+2NC	FZ 2056-W3M2 → 1NO+2NC	FZ 2057-W3M2 → 1NO+2NC
21	L	FZ 2152-W3M2 → 3NC	FZ 2154-W3M2 → 3NC	FZ 2156-W3M2 → 3NC	FZ 2157-W3M2 → 3NC
22	L	FZ 2252-W3M2 → 2NO+1NC	FZ 2254-W3M2 → 2NO+1NC	FZ 2256-W3M2 → 2NO+1NC	FZ 2257-W3M2 → 2NO+1NC
Max. speed		page 231 - type 1	page 231 - type 1	page 231 - type 1	page 231 - type 1
Actuating force		0.07 Nm (0.25 Nm →)	0.07 Nm (0.25 Nm →)	0.07 Nm (0.25 Nm →)	0.07 Nm (0.25 Nm →)
Travel diagrams		page 231 - group 4	page 231 - group 4	page 231 - group 4	page 231 - group 4

Increased actuating force



The switch can be delivered with increased actuating force (option W4). Ideal for vibration applications.

Actuators	Actuating force
01, 14, 15, 16	7 N
02, 05	6 N
07	3.5 N
30 … 57	0.08 Nm

To order the switch with reset and increased actuating force, replace the -W3 option with -W4 in the order code.
Example: FZ 601-**W3**M2 → FZ 601-**W4**M2

All values in the drawings are in mm

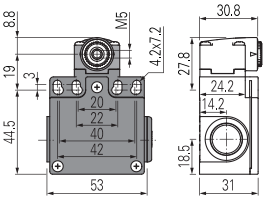
Accessories See page 207

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

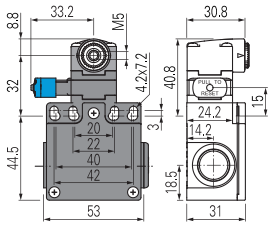
Position switches with swivelling lever without actuator

Contact type

R = snap action
L = slow action
LO = slow action, make before break
LS = slow action, shifted
LV = slow action, shifted and spaced
LI = slow action, independent
LA = slow action, close
= electronic, PNP



With manual reset knob



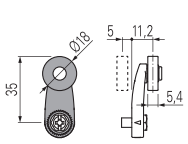
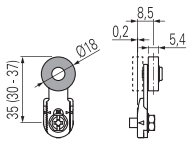
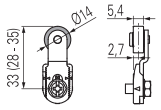
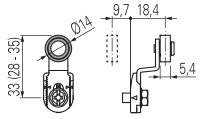
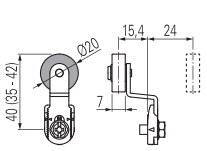
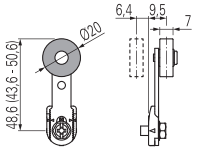
Contact block				With manual reset knob	
2	R	FZ 238-M2	2x(1NO-1NC)	FZ 238-W3M2	2x(1NO-1NC)
5	R	FZ 538-M2 ⊕	1NO+1NC	/	
6	L	FZ 638-M2 ⊕	1NO+1NC	FZ 638-W3M2 ⊕	1NO+1NC
7	LO	FZ 738-M2 ⊕	1NO+1NC	/	
9	L	FZ 938-M2 ⊕	2NC	FZ 938-W3M2 ⊕	2NC
10	L	FZ 1038-M2	2NO	FZ 1038-W3M2	2NO
11	R	FZ 1138-M2 ⊕	2NC	/	
12	R	FZ 1238-M2	2NO	/	
13	LV	FZ 1338-M2 ⊕	2NC	/	
14	LS	FZ 1438-M2 ⊕	2NC	/	
15	LS	FZ 1538-M2	2NO	/	
16	LI	FZ 1638-M2 ⊕	2NC	/	
18	LA	FZ 1838-M2 ⊕	1NO+1NC	/	
20	L	FZ 2038-M2 ⊕	1NO+2NC	FZ 2038-W3M2 ⊕	1NO+2NC
21	L	FZ 2138-M2 ⊕	3NC	FZ 2138-W3M2 ⊕	3NC
22	L	FZ 2238-M2 ⊕	2NO+1NC	FZ 2238-W3M2 ⊕	2NO+1NC
E1		FZ E138-M2	1NO-1NC	/	
Actuating force		0.06 Nm (0.25 Nm ⊕)		0.07 Nm (0.25 Nm ⊕)	
Travel diagrams		page 232 - group 5		page 231 - group 4	

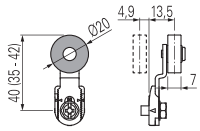
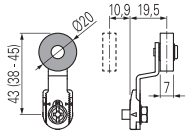
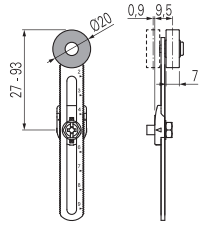
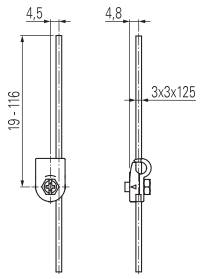
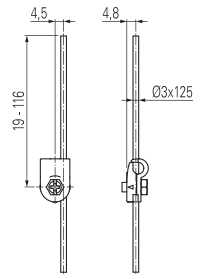
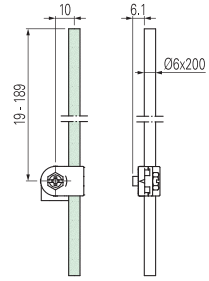
IMPORTANT

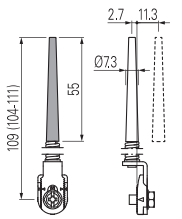
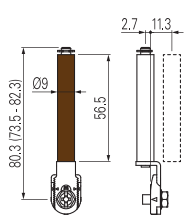
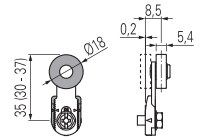
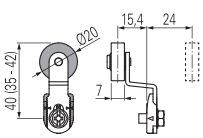
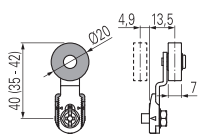
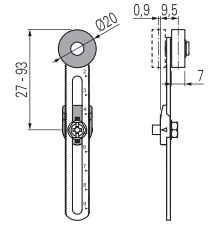
For safety applications: join only switches and actuators marked with symbol ⊕ next to the product code.
For more information about safety applications see details on page 225.

Separate actuators

IMPORTANT: These separate actuators can be used only with items of the FR, FM, FX, FZ, FK, NA, NB and NF series.

Technopolymer roller Ø 18 mm	Technopolymer roller Ø 18 mm	Technopolymer roller Ø 14 mm	Technopolymer roller Ø 14 mm	Technopolymer roller Ø 20 mm	Technopolymer roller Ø 20 mm
					
VN A00KA ⊕	VN A00KB ⊕	VN A00KC ⊕	VN A00KD ⊕	VN A00KE ⊕	VN A00KF ⊕

Technopolymer roller Ø 20 mm	Technopolymer roller Ø 20 mm	Adjustable safety actuator with technopolymer roller	Adjustable square rod, 3x3x125 mm	Adjustable round rod Ø 3x125 mm	Adjustable glass fibre rod
					
VN A00KG ⊕	VN A00KH ⊕	VN A00KP ⊕	VN A00LB	VN A00LE	VN A00LH

Spring rod with plastic tip	Porcelain roller	Technopolymer roller Ø 14 mm	Technopolymer roller Ø 14 mm	Technopolymer roller Ø 20 mm	Adjustable safety lever with technopolymer roller Ø 20 mm
		With metallic parts in stainless steel			
					
VN A00LL	VN A00LP ⊕ (2)	VN A00KB-V38 ⊕	VN A00KE-V38 ⊕	VN A00KG-V38 ⊕	VN A00KP-V38 ⊕

All values in the drawings are in mm

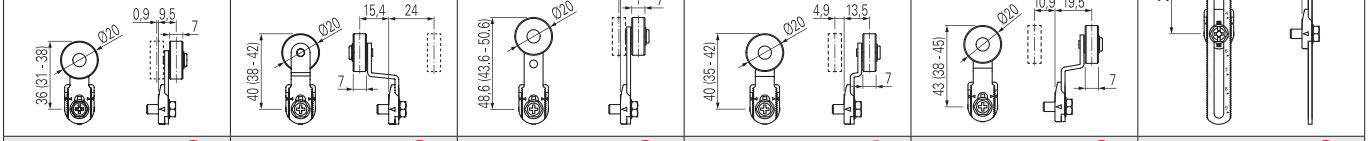
Accessories See page 207

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

Special separate actuators

IMPORTANT: These separate actuators can be used only with items of the FR, FM, FX, FZ, FK, NA, NB and NF series.

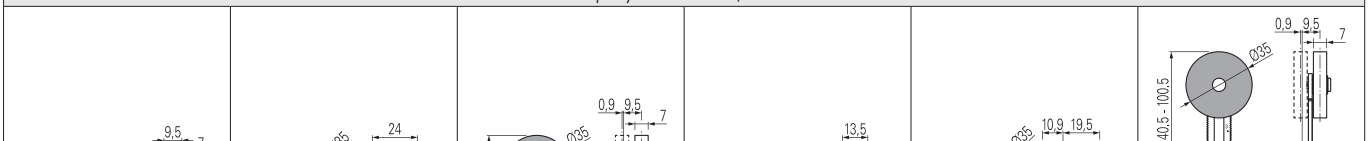
Steel rollers, Ø 20 mm, with self-lubrication



VN A00KB-R24 | VN A00KE-R24 | VN A00KF-R24 | VN A00KG-R24 | VN A00KH-R24 | VN A00KP-R24

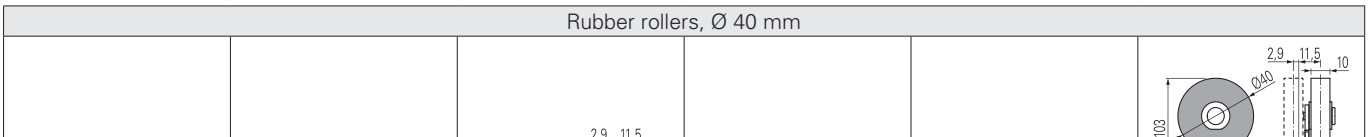
Note: To order with 316L stainless steel roller: replace R24 with R41 in the order numbers.

Technopolymer rollers, Ø 35 mm



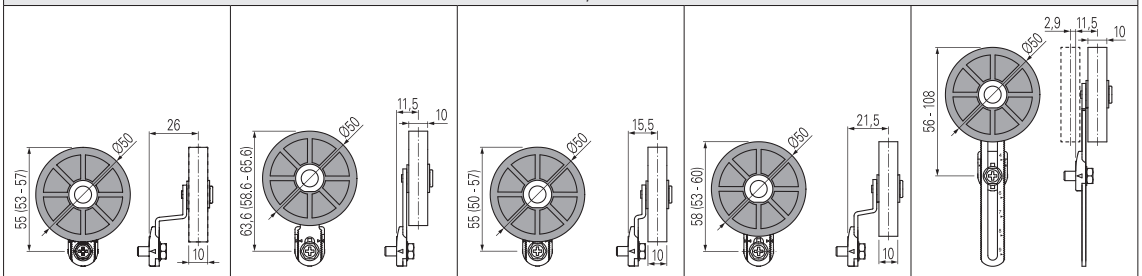
VN A00KB-R25 (1) | VN A00KE-R25 (1) | VN A00KF-R25 | VN A00KG-R25 (1) | VN A00KH-R25 | VN A00KP-R25

Rubber rollers, Ø 40 mm



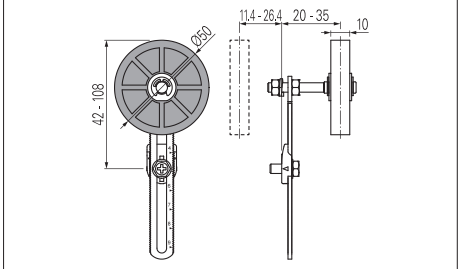
VN A00KB-R5 (1) | VN A00KE-R5 (1) | VN A00KF-R5 | VN A00KG-R5 (1) | VN A00KH-R5 (1) | VN A00KP-R5

Rubber rollers, Ø 50 mm



VN A00KE-R26 (1) | VN A00KF-R26 (1) | VN A00KG-R26 (1) | VN A00KH-R26 (1) | VN A00KP-R26

Protruding rubber rollers, Ø 50 mm



VN A00KP-R27

- (1) The actuator cannot be rotated to the inside because it will hit the switch head upon actuation.
- (2) The position switch obtained by assembling switch FZ •38-M2 (e.g. FZ 538-M2, FZ 638-M2, ...) with actuator VN A00LP will not present the same travel diagrams and actuating forces as switch FZ •53-E0M2V9 (e.g. FZ 553-E0M2V9, FZ 653-E0M2V9, ...).

Note: To check the correspondence with previous lever codes, please consult the table "Changed article codes" on page 289. Example: VF LE30 -> VN A00KA.

All values in the drawings are in mm

Accessories See page 207

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