

Позиционные выключатели FK

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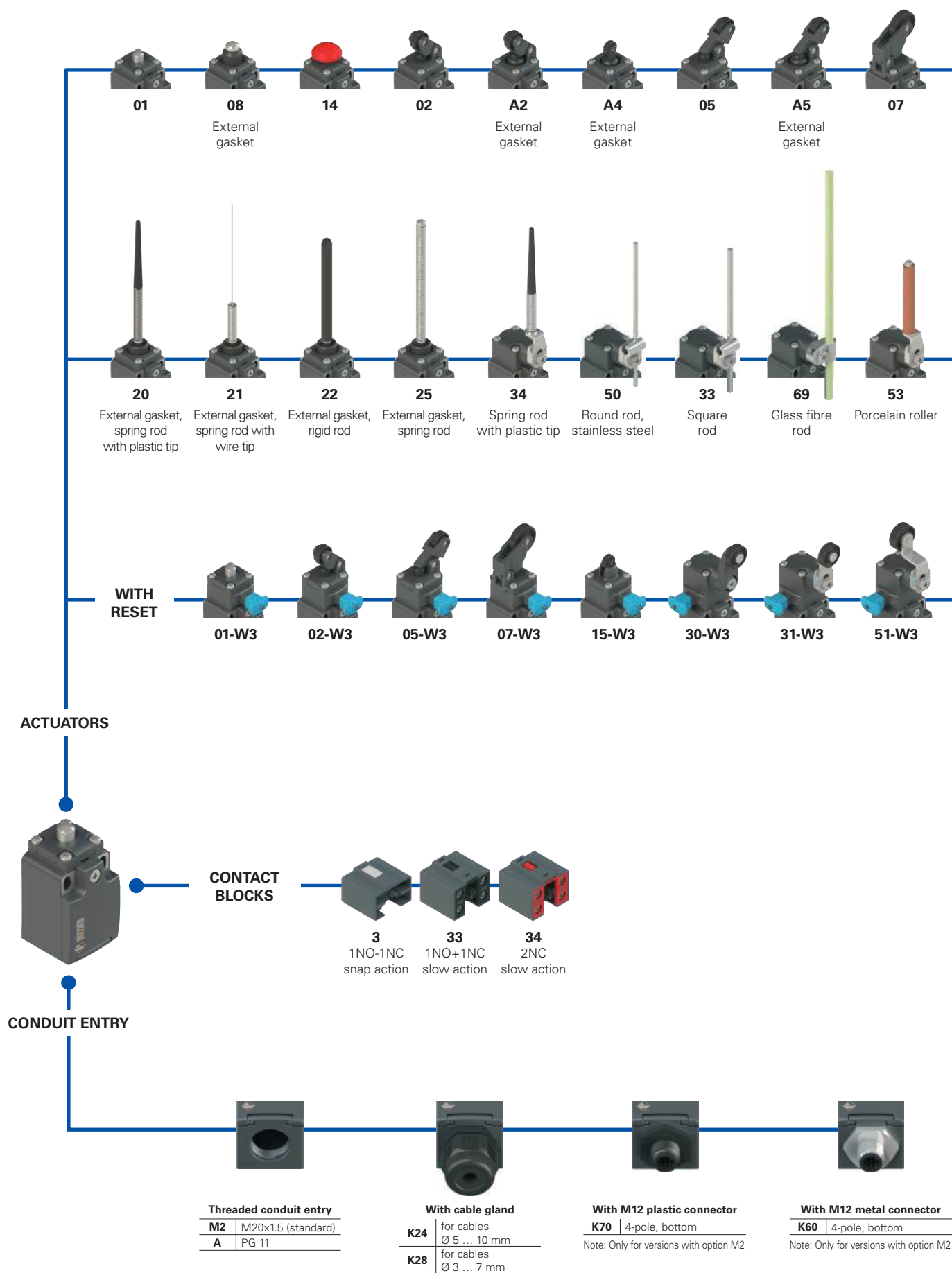
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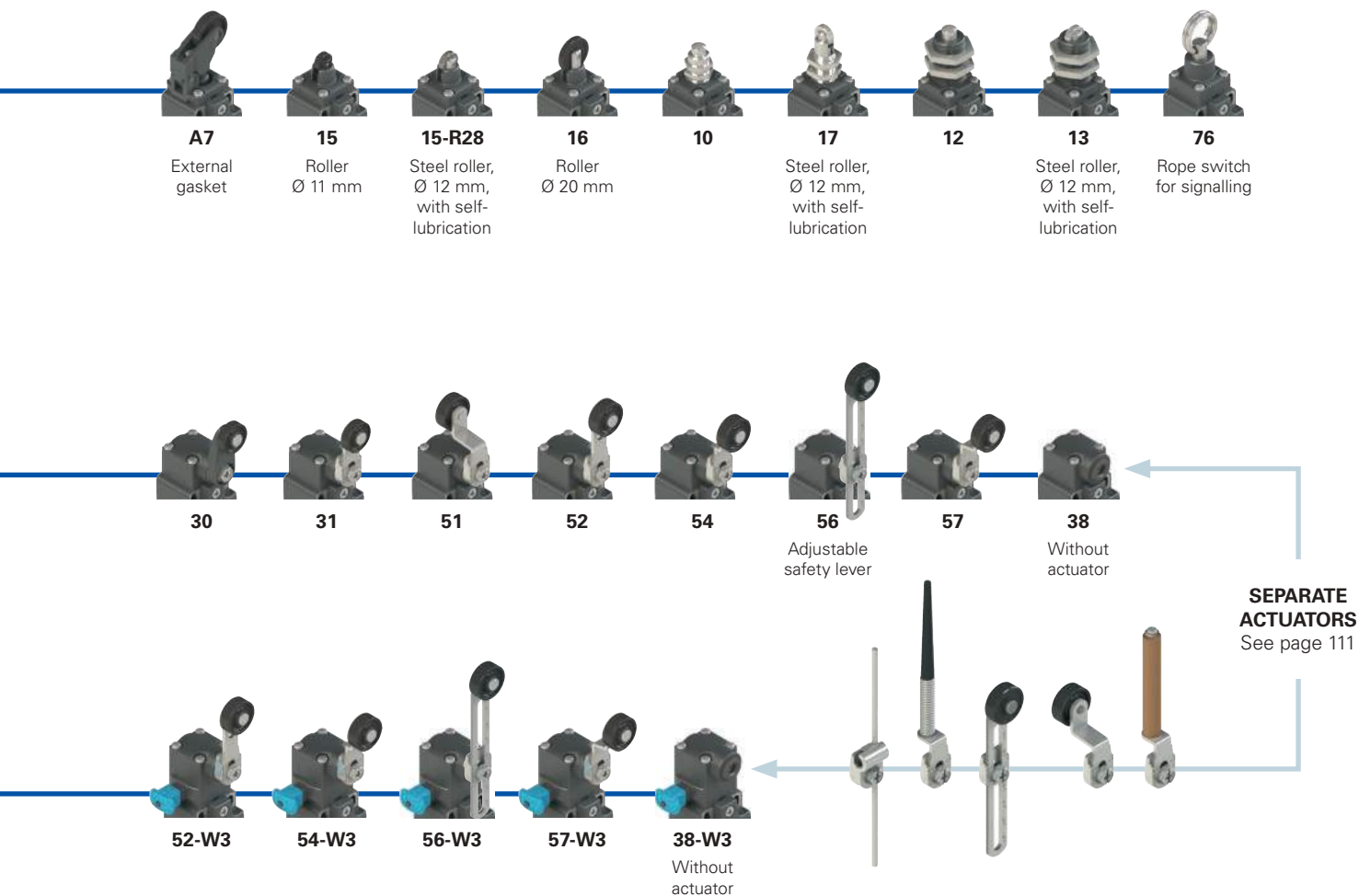
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Selection diagram



—●— Product options
 —→— Sold separately as accessory



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
FK 302-W3XGM2K24R23T6

Ambient temperature

-25°C ... +80°C (standard)

T6 -40°C ... +80°C

Housing

FK technopolymer, one conduit entry

Contact block

- 3** 1NO+1NC, snap action
- 33** 1NO+1NC, slow action
- 34** 2NC, slow action

Actuators

- 01** short plunger
- 02** roller lever
- 05** angled lever with roller
-

Reset

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

External metallic parts

- zinc-plated steel (standard)
- X** stainless steel

Contact type

- silver contacts (standard)
- G** silver contacts, 1 µm gold coating

Pre-installed cable glands or connectors

no cable gland or connector (standard)

K24 cable gland for cables Ø 5 ... 10 mm

K70 M12 plastic connector, 4-pole

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

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, 17)
- 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)

Threaded conduit entry

M2 M20x1.5 (standard)

PG 11



Main features

- Technopolymer housing, one conduit entry
- Hinged cover, fixed with single captive screw
- Metal plates on mounting holes of the housing
- Protection degree IP67 and up to IP69K for actuators without external gasket
- 3 contact blocks available
- 47 actuators available
- Versions with external parts in stainless steel
- Versions with gold-plated silver contacts

Quality marks:



IMQ approval: EG610
 UL approval: E131787
 CCC approval: 2021000305000101
 EAC approval: RU C-IT.YT03.B.00035/19

Installation for safety applications:

Use only switches marked with the $\ominus$ 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.

Technical data

Housing

Housing made of glass fibre reinforced technopolymer, self-extinguishing, shock-proof and with double insulation: $\square$

One threaded conduit entry: M16x1.5 (standard)

Protection degree with actuators A1, A2, A4, A5, A7, 08, 20, 21, 22, 25: IP67 acc. to EN 60529 (with cable gland of equal or higher protection degree)

Protection degree with actuators 01, 02, 05, 07, 10, 12, 13, 14, 15, 15-R28, 16, 17, 30, 31, 33, 34, 38, 50, 51, 52, 53, 54, 55, 56, 57, 69, 76: IP69K acc. to ISO 20653 (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.

Electrical data

Utilization category

without connector	Thermal current (I_{th}):	10 A	Alternating current: AC15 (50÷60 Hz)		
	Rated insulation voltage (U_i):	500 Vac 600 Vdc	Ue (V)	250	400
	Rated impulse withstand voltage (U_{imp}):	400 Vac 500 Vdc (contact blocks 33, 34)	Ie (A)	6	4
		6 kV			1
with M12 connector, 4-pole	Conditional short circuit current:	4 kV (contact block 33, 34)	Direct current: DC13		
		1000 A acc. to EN 60947-5-1	Ue (V)	24	125
	Protection against short circuits:	type aM fuse 10 A 500 V	Ie (A)	3	0.55
	Pollution degree:	3			0.3
with M12 connector, 4-pole	Thermal current (I_{th}):	4 A	Alternating current: AC15 (50÷60 Hz)		
	Rated insulation voltage (U_i):	250 Vac 300 Vdc	Ue (V)	24	120
	Protection against short circuits:	type gG fuse 4 A 500 V	Ie (A)	4	4
	Pollution degree:	3	Direct current: DC13		
			Ue (V)	24	125
			Ie (A)	3	0.55
					0.3

Features approved by IMQ

Rated insulation voltage (U_i): 500 Vac
400 Vac (for contact blocks 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 33, 34)
Protection degree of the housing: IP67
MV terminals (screw terminals)
Pollution degree: 3
Utilization category: AC15
Operating voltage (U_o): 400 Vac (50 Hz)
Operating current (I_o): 3 A
Forms of the contact element: Za, Zb, Y+Y, Y.
Positive opening of contacts on contact blocks 33, 34.
In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

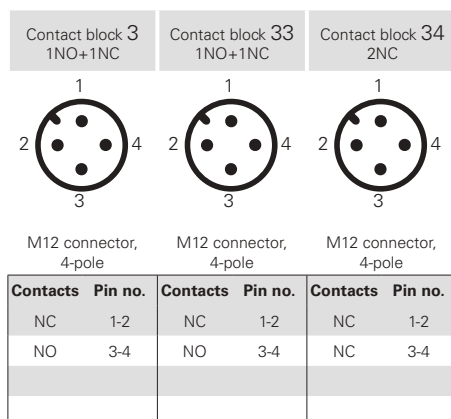
Please contact our technical department for the list of approved products.

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

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

Wiring diagram for M12 connectors



Contact type

R = snap action
L = slow action

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 With Ø 12 mm steel roller with self-lubrication or 316L stainless steel on request
3	R	FK 301-M2 1NO-1NC	FK 3A2-M2 1NO-1NC	FK 3A4-M2 1NO-1NC
33	L	FK 3301-M2 ➔ 1NO+1NC	FK 33A2-M2 ➔ 1NO+1NC	FK 33A4-M2 ➔ 1NO+1NC
34	L	FK 3401-M2 ➔ 2NC	FK 34A2-M2 ➔ 2NC	FK 34A4-M2 ➔ 2NC
Max. speed		page 231 - type 4	page 231 - type 3	page 231 - type 5
Actuating force		5 N (25 N ➔)	4 N (25 N ➔)	4.3 N (25 N ➔)
Travel diagrams		page 232 - group 1	page 232 - group 2	page 232 - group 1

Contact type
R = snap action
L = slow action

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	External gasket
3	R	FK 305-M2 1NO-1NC	FK 307-M2 1NO-1NC	FK 3A7-M2 1NO-1NC
33	L	FK 3305-M2 ➔ 1NO+1NC	FK 3307-M2 ➔ 1NO+1NC	FK 33A7-M2 ➔ 1NO+1NC
34	L	FK 3405-M2 ➔ 2NC	FK 3407-M2 ➔ 2NC	FK 34A7-M2 ➔ 2NC
Max. speed		page 231 - type 3	page 231 - type 3	page 231 - type 3
Actuating force		4 N (25 N ➔)	4 N (25 N ➔)	3 N (25 N ➔)
Travel diagrams		page 232 - group 2	page 232 - group 3	page 232 - group 3

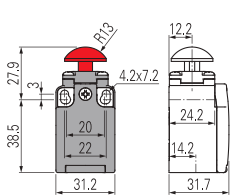
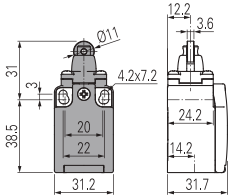
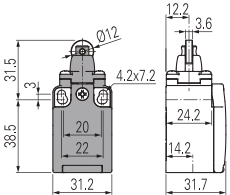
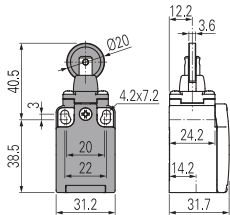
Contact type
R = snap action
L = slow action

Contact block

	External gasket	Secured only by means of threaded head in vertical position	External gasket	External gasket
3	R	FK 308-M2 1NO-1NC	FK 312-M2 1NO-1NC	FK 313-M2 1NO-1NC
33	L	FK 3308-M2 ➔ 1NO+1NC	FK 3312-M2 ➔ 1NO+1NC	FK 3313-M2 ➔ 1NO+1NC
34	L	FK 3408-M2 ➔ 2NC	FK 3412-M2 ➔ 2NC	FK 3413-M2 ➔ 2NC
Max. speed		page 231 - type 4	page 231 - type 4	page 231 - type 2
Actuating force		5 N (25 N ➔)	5 N (25 N ➔)	5 N (25 N ➔)
Travel diagrams		page 232 - group 1	page 232 - group 1	page 232 - group 1

All values in the drawings are in mm



Contact type R = snap action L = slow action			Roller, Ø 11 mm, technopolymer		Steel roller, Ø 12 mm, with self-lubrication With 316L stainless steel roller on request				
									
Contact block									
3	R	FK 314-M2	1NO-1NC	FK 315-M2	1NO-1NC	FK 315-M2R28	1NO-1NC	FK 316-M2	1NO-1NC
33	L	FK 3314-M2	1NO+1NC	FK 3315-M2	1NO+1NC	FK 3315-M2R28	1NO+1NC	FK 3316-M2	1NO+1NC
34	L	FK 3414-M2	2NC	FK 3415-M2	2NC	FK 3415-M2R28	2NC	FK 3416-M2	2NC
Max. speed	page 231 - type 4			page 231 - type 2			page 231 - type 2		
Actuating force	6 N (25 N)			5 N (25 N)			5 N (25 N)		
Travel diagrams	page 232 - group 1			page 232 - group 1			page 232 - group 1		

Contact type R = snap action L = slow action	Secured only by means of threaded head in vertical position		External gasket Spring rod		External gasket Spring rod		External gasket Rigid rod	
Contact block								
3 R	FK 317-M2	1NO-1NC	FK 320-M2	1NO-1NC	FK 321-M2	1NO-1NC	FK 322-M2	1NO-1NC
33 L	FK 3317-M2	1NO+1NC	FK 3320-M2	1NO+1NC	FK 3321-M2	1NO+1NC	FK 3322-M2	1NO+1NC
34 L	FK 3417-M2	2NC	FK 3420-M2	2NC	FK 3421-M2	2NC	FK 3422-M2	2NC
Max. speed	page 231 - type 2		1 m/s		1 m/s		1 m/s	
Actuating force	5 N (25 N)		0.05 Nm		0.05 Nm		0.05 Nm (0.25 N)	
Travel diagrams	page 232 - group 1		page 232 - group 4		page 232 - group 4		page 232 - group 4	

Contact type R = snap action L = slow action	External gasket Spring rod		With Ø 20 mm steel roller with self-lubrication or 316L stainless steel on request		Other rollers available. See page 112		Square rod, 3x3 mm	
Contact block								
3 R	FK 325-M2	1NO-1NC	FK 330-M2	1NO-1NC	FK 331-M2	1NO-1NC	FK 333-M2	1NO-1NC
33 L	FK 3325-M2	1NO+1NC	FK 3330-M2	1NO+1NC	FK 3331-M2	1NO+1NC	FK 3333-M2	1NO+1NC
34 L	FK 3425-M2	2NC	FK 3430-M2	2NC	FK 3431-M2	2NC	FK 3433-M2	2NC
Max. speed	1 m/s		page 231 - type 1		page 231 - type 1		1.5 m/s	
Actuating force	0.1 Nm		0.05 Nm (0.25 N)		0.05 Nm (0.25 N)		0.05 Nm	
Travel diagrams	page 232 - group 4		page 232 - group 5		page 232 - group 5		page 232 - group 5	

All values in the drawings are in mm

Contact type

R = snap action
L = slow action

Contact block

			Round rod, Ø 3 mm, stainless steel		Other rollers available. See page 112		Other rollers available. See page 112
3	R	FK 334-M2	1NO-1NC	FK 350-M2	1NO-1NC	FK 351-M2	1NO-1NC
33	L	FK 3334-M2	1NO+1NC	FK 3350-M2	1NO+1NC	FK 3351-M2	1NO+1NC
34	L	FK 3434-M2	2NC	FK 3450-M2	2NC	FK 3451-M2	2NC
Max. speed		1.5 m/s		1.5 m/s		page 231 - type 1	page 231 - type 1
Actuating force		0.05 Nm		0.05 Nm		0.05 Nm (0.25 Nm $\rightarrow$)	0.05 Nm (0.25 Nm $\rightarrow$)
Travel diagrams		page 232 - group 5		page 232 - group 5		page 232 - group 5	page 232 - group 5

Contact type

R = snap action
L = slow action

Contact block

			Porcelain roller		Other rollers available. See page 112		Other rollers available. See page 112
3	R	FK 353-E0M2	1NO-1NC	FK 354-M2	1NO-1NC	FK 356-M2	1NO-1NC
33	L	FK 3353-E0M2V9 $\rightarrow$	1NO+1NC	FK 3354-M2 $\rightarrow$	1NO+1NC	FK 3356-M2 $\rightarrow$	1NO+1NC
34	L	FK 3453-E0M2V9 $\rightarrow$	2NC	FK 3454-M2 $\rightarrow$	2NC	FK 3456-M2 $\rightarrow$	2NC
Max. speed		0.5 m/s		page 231 - type 1		page 231 - type 1	page 231 - type 1
Actuating force		0.02 Nm (0.25 Nm $\rightarrow$)		0.05 Nm (0.25 Nm $\rightarrow$)		0.05 Nm (0.25 Nm $\rightarrow$)	0.05 Nm (0.25 Nm $\rightarrow$)
Travel diagrams		page 232 - group 6		page 232 - group 5		page 232 - group 5	page 232 - group 5

Contact type

R = snap action
L = slow action

Contact block

			Glass fibre rod		Rope switch for signalling
3	R	FK 369-M2	1NO-1NC	FK 376-M2	1NO-1NC
33	L	FK 3369-M2	1NO+1NC	FK 3376-M2	1NO+1NC
34	L	FK 3469-M2	2NC	FK 3476-M2	2NO
Max. speed		1.5 m/s		0.5 m/s	
Actuating force		0.05 Nm		initial 20 N - final 40 N	
Travel diagrams		page 232 - group 5		page 232 - group 7	

(1) Positive opening only with actuator set to max. See page 112.

All values in the drawings are in mm

Accessories See page 207



FK 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

33	L	FK 3301-W3M2 $\rightarrow$	1NO+1NC	FK 3302-W3M2 $\rightarrow$	1NO+1NC	FK 3305-W3M2 $\rightarrow$	1NO+1NC	FK 3307-W3M2 $\rightarrow$	1NO+1NC
34	L	FK 3401-W3M2 $\rightarrow$	2NC	FK 3402-W3M2 $\rightarrow$	2NC	FK 3405-W3M2 $\rightarrow$	2NC	FK 3407-W3M2 $\rightarrow$	2NC
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 $\rightarrow$)		4 N (25 N $\rightarrow$)		4 N (25 N $\rightarrow$)		2.5 N (25 N $\rightarrow$)	
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

33	L	FK 3315-W3M2 $\rightarrow$	1NO+1NC	FK 3330-W3M2 $\rightarrow$	1NO+1NC	FK 3331-W3M2 $\rightarrow$	1NO+1NC	FK 3351-W3M2 $\rightarrow$	1NO+1NC
34	L	FK 3415-W3M2 $\rightarrow$	2NC	FK 3430-W3M2 $\rightarrow$	2NC	FK 3431-W3M2 $\rightarrow$	2NC	FK 3451-W3M2 $\rightarrow$	2NC
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 $\rightarrow$)		0.07 Nm (0.25 Nm $\rightarrow$)		0.07 Nm (0.25 Nm $\rightarrow$)		0.07 Nm (0.25 Nm $\rightarrow$)	
Travel diagrams		page 231 - group 1		page 231 - group 4		page 231 - group 4		page 231 - group 4	

Contact type

R = snap action
L = slow action

Contact block

33	L	FK 3352-W3M2 $\rightarrow$	1NO+1NC	FK 3354-W3M2 $\rightarrow$	1NO+1NC	FK 3356-W3M2 $\rightarrow$	1NO+1NC	FK 3357-W3M2 $\rightarrow$	1NO+1NC
34	L	FK 3452-W3M2 $\rightarrow$	2NC	FK 3454-W3M2 $\rightarrow$	2NC	FK 3456-W3M2 $\rightarrow$	2NC	FK 3457-W3M2 $\rightarrow$	2NC
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 $\rightarrow$)		0.07 Nm (0.25 Nm $\rightarrow$)		0.07 Nm (0.25 Nm $\rightarrow$)		0.07 Nm (0.25 Nm $\rightarrow$)	
Travel diagrams		page 231 - group 4		page 231 - group 4		page 231 - group 4		page 231 - group 4	

All values in the drawings are in mm

Accessories See page 207

Position switches with swivelling lever without actuator

Contact type
R = snap action
L = slow action

Contact block

3	R	FK 338-M2	1NO-1NC	/
33	L	FK 3338-M2	1NO+1NC	FK 3338-W3M2
34	L	FK 3438-M2	2NC	FK 3438-W3M2
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.

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: FK 3301-W3M1 → FK 3301-W4M1

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	VN A00KB-V38	VN A00KE-V38	VN A00KG-V38	VN A00KP-V38

All values in the drawings are in mm

Accessories See page 207

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 FK •38-M2 (e.g. FK 538-M2, FK 638-M2, ...) with actuator VN A00LP will not present the same travel diagrams and actuating forces as switch FK •53-E0M2V9 (e.g. FK 553-E0M2V9, FK 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.

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