Position switches FK series

Selection diagram

CONTACT BLOCKS

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

CONDUIT ENTRY

- Threaded conduit entry
- M16x1.5
- PG 11 (standard)
- PG 13

ACTUATORS

- 01-W3
- 02-W3
- 05-W3
- 07-W3
- 15-W3
- 30-W3
- 31-W3
- 51-W3

CONTACTS

- 01
- 08
- 14
- 02
- A2
- A4
- 05
- A5
- 07
- 20
- 21
- 25
- 34
- 50
- 33
- 69
- 53

- 2NC slow action
- 1NO-1NC snap action
- 1NO+1NC slow action

- stainless steel round rod
- square rod
- fiber glass rod
- porcelain roller

- external rubber gasket
- external rubber gasket
- external rubber gasket

- product option
- accessory sold separately

- With assembled cable gland
- K22 for Ø 5 to Ø 10 mm cables range
- K26 for Ø 3 to Ø 7 mm cables range
**Code structure**

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

**Housing**

FK  polymer housing, one conduit entry

**Contact blocks**

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

**Actuators**

01  short plunger
02  roller lever
05  offset roller lever

**Suffix**

no suffix (standard)

1  with stainless steel roller:
   - Ø 12 mm for actuator A4, 15
   - Ø 14 mm for actuators A2, 02, A5, 05
   - Ø 20 mm for actuators 30, 31, 51, 52, 54, 55, 56, 57

2  with Ø 35 mm polymer roller (see special loose actuators on page 2/98)

3  with Ø 50 mm rubber roller (see special loose actuators on page 2/98)

4  with Ø 50 mm overhanging rubber roller (see special loose actuators on page 2/98)

**Preinstalled cable gland**

K22  with assembled cable gland suitable for Ø 5 to Ø 10 mm cables range
K26  with assembled cable gland suitable for Ø 3 to Ø 7 mm cables range

**Threaded conduit entry**

PG 11 (standard)
M1  M16x1,5

**Contacts type**

silver contacts (standard)
G  silver contacts gold plated 1 µm (contact block 3 excluded)

**External metallic parts**

zinc plated steel (standard)
X  stainless steel

**Reset hooking**

without reset (standard)
W  simultaneous reset hooking
Position switches FK series

Technical data

Housing
Made of glass-reinforced polymer, self-extinguishing, shock-proof thermoplastic resin and with double insulation.
One threaded conduit entry
Protection degree: IP67 according to EN 60529

General data
Ambient temperature: from -25°C to +80°C
Version for operation in ambient temperature from -40°C to +80°C on request
Max operating frequency: 3600 operations cycles/hour
Mechanical endurance: 20 million operations cycles¹
Assembling position: any
Driving torque for installation: see pages 6/1-6/10
¹ One operation cycle means two movements, one to close and one to open contacts, as foreseen by EN 60947-5-1 standard.

Cross section of the conductors (flexible copper wire)
Contact blocks 33, 34:
- min. 1 x 0,34 mm² (1 x AWG 22)
- max. 2 x 1,5 mm² (2 x AWG 16)
Contact blocks 3:
- min. 1 x 0,5 mm² (1 x AWG 20)
- max. 2 x 1,5 mm² (2 x AWG 16)

In conformity with standards:
IEC 60947-5-1, EN 60947-5-1, IEC 60204-1, EN 60204-1, EN 1088, EN ISO 12100-1, EN ISO 12100-2, IEC 60529, EN 60529, NFC 63-140, VDE 0660-200, VDE 0113, CENELEC EN 50013.
Approvals:
IEC 60947-5-1, UL 508, GB14048.5-2001

In conformity with requirements requested by:
Positive contact opening in conformity with standards:
IEC 60947-5-1, EN 60947-5-1, VDE 0660-206.

Installation for safety applications:
Use only switches marked with the symbol ☑. The safety circuit must always be connected with the NC contacts (normally closed contacts: 11-12, 21-22 or 31-32) as stated in the standard EN 60947-5-1, encl. K, par. 2. The switch must be actuated with at least up to the positive opening travel shown in the travels diagrams on page 6/6. The switch must be actuated at least with the positive opening force, shown in brackets, underneath each article, near the value of the min. force.

⚠️ If not expressly indicated in this chapter, for the right installation and the correct utilization of all articles see requirements indicated from page 6/1 to page 6/10.

Electrical data

<table>
<thead>
<tr>
<th>Thermal current (Ith): 10 A</th>
<th>Alternate current: AC15 (50...60 Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 Vac 600 Vdc</td>
<td>Ue (V) 250 400 500</td>
</tr>
<tr>
<td>400 Vac 600 Vdc</td>
<td>Ie (A) 6 4 1</td>
</tr>
<tr>
<td>for contact blocks 33, 34</td>
<td>Direct current: DC13</td>
</tr>
<tr>
<td>1000 A according to EN 60947-5-1</td>
<td>Ue (V) 24 125 250</td>
</tr>
<tr>
<td>fuse 10 A 500 V type aM</td>
<td>Ie (A) 6 1,1 0,4</td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Markings and quality marks:
Approval IMQ: EG610
Approval UL: E131787
Approval CCC: 2007010305230013
Approval EAU: 1010181

If not expressly indicated in this chapter, for the right installation and the correct utilization of all articles see requirements indicated from page 6/1 to page 6/10.
Data type approved by IMQ, CCC and EZU

- Rated insulation voltage (Ui): 500 Vac
- Thermal current (Ith): 10 A
- Protection against short circuits: fuse 10 A, 500 V type aM
- Protection degree: IP67
- MV terminals (screw clamps)
- Pollution degree: 3
- Utilization category: AC15
- Operation voltage (Ue): 400 Vac (50 Hz)
- Operation current (Ie): 3 A
- Forms of the contact element: Zb, Y+Y
- Positive opening of contacts on contact block 33, 34

In conformity with standards: EN 60947-1, EN 60947-5-1 and subsequent modifications and completions, fundamental requirements of the Low Voltage Directive 2006/95/CE and subsequent modifications and completions.

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

Data type approved by UL

- Utilization categories: Q300 (69 VA, 125-250 Vdc), A600 (720 VA, 120-600 Vac)
- Rated insulation voltage (Ui): 500 Vac, 400 Vac for contact blocks 33, 34
- Thermal current (Ith): 10 A
- Protection against short circuits: fuse 10 A, 500 V type aM
- Protection degree: IP67
- MV terminals (screw clamps)
- Pollution degree: 3
- Utilization category: AC15
- Operation voltage (Ue): 400 Vac (50 Hz)
- Operation current (Ie): 3 A
- Forms of the contact element: Zb, Y+Y
- Positive opening of contacts on contact block 33, 34

In conformity with standard: UL 508

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

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.
## Position switches FK series

**Contacts type:**
- R = snap action
- L = slow action

### Contact blocks

<table>
<thead>
<tr>
<th>3</th>
<th>33</th>
<th>34</th>
</tr>
</thead>
<tbody>
<tr>
<td>FK 301 1NO-1NC</td>
<td>FK 3301 1NO+1NC</td>
<td>FK 3A4 1NO-1NC</td>
</tr>
<tr>
<td>FK 302 1NO-1NC</td>
<td>FK 3302 1NO+1NC</td>
<td>FK 33A4 1NO+1NC</td>
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<tr>
<td>FK 3A2 1NO-1NC</td>
<td>FK 33A2 1NO+1NC</td>
<td>FK 34A2 2NC</td>
</tr>
<tr>
<td>FK 3A4 1NO-1NC</td>
<td>FK 33A4 1NO+1NC</td>
<td>FK 34A4 2NC</td>
</tr>
</tbody>
</table>

**Max speed**
- page 6/5 - type 4
- 5 N (25 N)

**Min. force**
- page 6/5 - group 1
- 5 N (25 N)

**Travel diagrams**
- page 6/6 - group 1
- 5 N (25 N)

### With stainless steel roller on request

<table>
<thead>
<tr>
<th>3</th>
<th>33</th>
<th>34</th>
</tr>
</thead>
<tbody>
<tr>
<td>FK 305 1NO-1NC</td>
<td>FK 3305 1NO+1NC</td>
<td>FK 307 1NO-1NC</td>
</tr>
<tr>
<td>FK 3A5 1NO-1NC</td>
<td>FK 33A5 1NO+1NC</td>
<td>FK 33A7 1NO-1NC</td>
</tr>
<tr>
<td>FK 3405 2NC</td>
<td>FK 34A5 2NC</td>
<td>FK 34A7 2NC</td>
</tr>
</tbody>
</table>

**Max speed**
- page 6/5 - type 3
- 4 N (25 N)

**Min. force**
- page 6/6 - group 2
- 4 N (25 N)

**Travel diagrams**
- page 6/6 - group 2
- 4,3 N (25 N)

### With external rubber gasket

<table>
<thead>
<tr>
<th>3</th>
<th>33</th>
<th>34</th>
</tr>
</thead>
<tbody>
<tr>
<td>FK 308 1NO-1NC</td>
<td>FK 3308 1NO+1NC</td>
<td>FK 3312 1NO-1NC</td>
</tr>
<tr>
<td>FK 310 1NO-1NC</td>
<td>FK 3310 1NO+1NC</td>
<td>FK 3312 1NO+1NC</td>
</tr>
<tr>
<td>FK 3408 2NC</td>
<td>FK 3410 2NC</td>
<td>FK 3412 2NC</td>
</tr>
</tbody>
</table>

**Max speed**
- page 6/5 - type 4
- 5 N (25 N)

**Min. force**
- page 6/6 - group 1
- 5 N (25 N)

**Travel diagrams**
- page 6/6 - group 1
- 5 N (25 N)

---

**Accessories** See page 5/1

All measures in the drawings are in mm

---

**General Catalog 2009-2010**
### Contacts type:
- **R** = snap action
- **L** = slow action

### Contact blocks

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>FK 314</td>
<td>FK 3314</td>
<td>FK 3414</td>
</tr>
<tr>
<td>1NO-1NC</td>
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<td>FK 3315</td>
<td>FK 3415</td>
</tr>
<tr>
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<td>1NO-1NC</td>
<td>2NC</td>
</tr>
<tr>
<td>FK 315-1</td>
<td>FK 3315-1</td>
<td>FK 3415-1</td>
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<tr>
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<td>FK 316</td>
<td>FK 3316</td>
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</tr>
<tr>
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<td>1NO-1NC</td>
<td>2NC</td>
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</table>

<table>
<thead>
<tr>
<th>Max speed</th>
<th>Min. force</th>
<th>Travel diagrams</th>
</tr>
</thead>
<tbody>
<tr>
<td>page 6/5 - type 4</td>
<td>6 N (25 N)</td>
<td>page 6/6 - group 1</td>
</tr>
<tr>
<td>page 6/5 - type 2</td>
<td>5 N (25 N)</td>
<td>page 6/6 - group 1</td>
</tr>
<tr>
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<td>5 N (25 N)</td>
<td>page 6/6 - group 1</td>
</tr>
<tr>
<td>page 6/5 - type 2</td>
<td>5 N (25 N)</td>
<td>page 6/6 - group 1</td>
</tr>
</tbody>
</table>

### Ø 11 mm polymer roller

- **Fixed only by threaded head in vertical position**
- **With external rubber gasket**

### Ø 12 mm stainless steel roller

- **Fixed only by threaded head in vertical position**
- **With external rubber gasket**

### Ø 12 mm stainless steel roller on request

- **Fixed only by threaded head in vertical position**
- **With Ø 20 mm stainless steel roller on request**
- **With external rubber gasket**
- **With external rubber gasket**
- **With external rubber gasket**

<table>
<thead>
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<th>34</th>
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<tbody>
<tr>
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<td>FK 320</td>
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<td>2NC</td>
</tr>
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<td>FK 321</td>
<td>FK 3321</td>
<td>FK 3421</td>
</tr>
<tr>
<td>1NO+1NC</td>
<td>1NO+1NC</td>
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<td>FK 325</td>
<td>FK 3325</td>
<td>FK 3425</td>
</tr>
<tr>
<td>1NO-1NC</td>
<td>1NO-1NC</td>
<td>2NC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Max speed</th>
<th>Min. force</th>
<th>Travel diagrams</th>
</tr>
</thead>
<tbody>
<tr>
<td>page 6/5 - type 2</td>
<td>5 N (25 N)</td>
<td>page 6/6 - group 1</td>
</tr>
<tr>
<td>1 m/s</td>
<td>0,05 Nm</td>
<td>page 6/6 - group 4</td>
</tr>
<tr>
<td>1 m/s</td>
<td>0,05 Nm</td>
<td>page 6/6 - group 4</td>
</tr>
<tr>
<td>1 m/s</td>
<td>0,1 Nm</td>
<td>page 6/6 - group 4</td>
</tr>
</tbody>
</table>

### Other rollers available. See page 2/98

### 3x3 mm square rod

<table>
<thead>
<tr>
<th>3</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FK 330</td>
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<td>2NC</td>
</tr>
<tr>
<td>FK 331</td>
<td>FK 3331</td>
<td>FK 3431</td>
</tr>
<tr>
<td>1NO-1NC</td>
<td>1NO-1NC</td>
<td>2NC</td>
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<tr>
<td>FK 333</td>
<td>FK 3333</td>
<td>FK 3433</td>
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<tr>
<td>1NO-1NC</td>
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</tr>
<tr>
<td>1NO-1NC</td>
<td>1NO-1NC</td>
<td>2NC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Max speed</th>
<th>Min. force</th>
<th>Travel diagrams</th>
</tr>
</thead>
<tbody>
<tr>
<td>page 6/5 - type 1</td>
<td>0,05 Nm (0,25 Nm)</td>
<td>page 6/6 - group 5</td>
</tr>
<tr>
<td>page 6/5 - type 1</td>
<td>0,05 Nm</td>
<td>page 6/6 - group 5</td>
</tr>
<tr>
<td>1,5 m/s</td>
<td>0,05 Nm</td>
<td>page 6/6 - group 5</td>
</tr>
<tr>
<td>1,5 m/s</td>
<td>0,05 Nm</td>
<td>page 6/6 - group 5</td>
</tr>
</tbody>
</table>

Items with code on the green background are available in stock.
## Position switches FK series

<table>
<thead>
<tr>
<th>Contacts type:</th>
<th>Ø 3 mm stainless steel round rod</th>
<th>Other rollers available. See page 2/98</th>
<th>Other rollers available. See page 2/98</th>
<th>Porcelain roller</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>FK 350 1NO-1NC</td>
<td>FK 351 1NO-1NC</td>
<td>FK 352 1NO-1NC</td>
<td>FK 353-E0 1NO-1NC</td>
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<tr>
<td>L</td>
<td>FK 3350 1NO+1NC</td>
<td>FK 3351 1NO+1NC</td>
<td>FK 3352 1NO+1NC</td>
<td>FK 3353-E0V9 1NO+1NC</td>
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<td>L</td>
<td>FK 3450 2NC</td>
<td>FK 3451 2NC</td>
<td>FK 3452 2NC</td>
<td>FK 3453-E0V9 2NC</td>
</tr>
</tbody>
</table>

**Max speed**
- 1.5 m/s
- 0.05 Nm

**Min. force**
- 0.05 Nm (0.25 Nm)

**Travel diagrams**
- page 6/6 - type 1
- page 6/6 - group 5

## Accessories

- **See page 5/1**

- Positive opening only with lever adjusted on the max. See page 2/97

---

**Contact blocks**

<table>
<thead>
<tr>
<th>3</th>
<th>FK 354 1NO-1NC</th>
<th>FK 355 1NO-1NC</th>
<th>FK 356 1NO-1NC</th>
<th>FK 357 1NO-1NC</th>
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<td>FK 3354 1NO+1NC</td>
<td>FK 3355 1NO+1NC</td>
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<td>FK 3455 2NC</td>
<td>FK 3456 2NC</td>
<td>FK 3457 2NC</td>
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</tbody>
</table>

**Max speed**
- page 6/5 - type 1
- page 6/6 - type 1
- page 6/6 - type 1
- page 6/6 - type 1

**Min. force**
- 0.05 Nm (0.25 Nm)
- 0.05 Nm (0.25 Nm)
- 0.05 Nm (0.25 Nm)
- 0.05 Nm (0.25 Nm)

**Travel diagrams**
- page 6/6 - group 5
- page 6/6 - group 5
- page 6/6 - group 5
- page 6/6 - group 5

---

**Contact blocks**

<table>
<thead>
<tr>
<th>3</th>
<th>FK 369 1NO-1NC</th>
<th>FK 376 1NO-1NC</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>FK 3369 1NO+1NC</td>
<td>FK 3376 1NO+1NC</td>
</tr>
<tr>
<td>34</td>
<td>FK 3469 2NC</td>
<td>FK 3476 2NO</td>
</tr>
</tbody>
</table>

**Max speed**
- 1.5 m/s
- 0.5 m/s

**Min. force**
- 0.05 Nm
- initial 20 N - final 40 N

**Travel diagrams**
- page 6/6 - group 5
- page 6/6 - group 7

---

**Contact blocks**

<table>
<thead>
<tr>
<th>3</th>
<th>FK 369 1NO-1NC</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>FK 3369 1NO+1NC</td>
</tr>
<tr>
<td>34</td>
<td>FK 3469 2NC</td>
</tr>
</tbody>
</table>

**Max speed**
- 0.5 m/s

**Min. force**
- initial 20 N - final 40 N

**Travel diagrams**
- page 6/6 - group 7

---

**Contact blocks**

<table>
<thead>
<tr>
<th>3</th>
<th>FK 369 1NO-1NC</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>FK 3369 1NO+1NC</td>
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<tr>
<td>34</td>
<td>FK 3469 2NC</td>
</tr>
</tbody>
</table>

**Max speed**
- 1.5 m/s

**Min. force**
- initial 20 N - final 40 N

**Travel diagrams**
- page 6/6 - group 7

---

**Contact blocks**

<table>
<thead>
<tr>
<th>3</th>
<th>FK 369 1NO-1NC</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>FK 3369 1NO+1NC</td>
</tr>
<tr>
<td>34</td>
<td>FK 3469 2NC</td>
</tr>
</tbody>
</table>

**Max speed**
- 0.5 m/s

**Min. force**
- initial 20 N - final 40 N

**Travel diagrams**
- page 6/6 - group 7

---

**Accessories**

- See page 5/1

- Positive opening only with lever adjusted on the max. See page 2/97
Pizzato Elettrica has developed an innovative reset device code W3 to make perfectly simultaneous the actuator and the contact block tripping. The new device is a block inserted between the switch body and the head, and could be rotated independently from this last one. This new device has following advantages:

- The reset device integrate in any standard actuation head
- Contact blocks with snap action are no more necessary because the tripping movement is made by the reset device itself
- Unlike some previous versions, the reset device can be rotated independently from the head for the maximum flexibility during the assembling.

Contact blocks:

<table>
<thead>
<tr>
<th>Contacts type</th>
<th>Contact blocks</th>
<th>Max speed</th>
<th>Min. force</th>
<th>Travel diagrams</th>
<th>Other rollers available. See page 2/98</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>FK 3301-W3</td>
<td>1NO+1NC</td>
<td>5 N (25 N)</td>
<td>page 6/5 - type 4</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>FK 3401-W3</td>
<td>2NC</td>
<td></td>
<td>page 6/7 - group 1</td>
<td></td>
</tr>
</tbody>
</table>

With stainless steel roller on request:

<table>
<thead>
<tr>
<th>Contacts type</th>
<th>Contact blocks</th>
<th>Max speed</th>
<th>Min. force</th>
<th>Travel diagrams</th>
<th>Other rollers available. See page 2/98</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>FK 3315-W3</td>
<td>1NO+1NC</td>
<td>4 N (25 N)</td>
<td>page 6/5 - type 1</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>FK 3415-W3</td>
<td>2NC</td>
<td></td>
<td>page 6/7 - group 4</td>
<td></td>
</tr>
</tbody>
</table>

With Ø 20 mm stainless steel roller on request:

<table>
<thead>
<tr>
<th>Contacts type</th>
<th>Contact blocks</th>
<th>Max speed</th>
<th>Min. force</th>
<th>Travel diagrams</th>
<th>Other rollers available. See page 2/98</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>FK 3352-W3</td>
<td>1NO+1NC</td>
<td>0,05 Nm (0,25 Nm)</td>
<td>page 6/5 - type 1</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>FK 3452-W3</td>
<td>2NC</td>
<td></td>
<td>page 6/7 - group 4</td>
<td></td>
</tr>
</tbody>
</table>

Items with code on the green background are available in stock.
Position switches FK series

Position switches with revolving lever without actuator

Contacts type:
- R = snap action
- L = slow action

with manual reset knob

IMPORTANT
For safety applications: join only switches and actuators marked with symbol.
For more information about safety applications see page 6/1.

Contact blocks:

<table>
<thead>
<tr>
<th>3</th>
<th>33</th>
<th>34</th>
</tr>
</thead>
<tbody>
<tr>
<td>FK 338</td>
<td>1NO-1NC</td>
<td></td>
</tr>
<tr>
<td>FK 338</td>
<td>1NO+1NC</td>
<td></td>
</tr>
<tr>
<td>FK 3438</td>
<td>2Ö</td>
<td></td>
</tr>
<tr>
<td>FK 3438-W3</td>
<td>1NO+1NC</td>
<td></td>
</tr>
<tr>
<td>FK 3438-W3</td>
<td>2Ö</td>
<td></td>
</tr>
</tbody>
</table>

Min. force 0,05 Nm (0,25 Nm)
Travel diagrams page 6/6 - group 5

Loose actuators

10 pcs pack

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

<table>
<thead>
<tr>
<th>18 mm roller</th>
<th>18 mm roller</th>
<th>Adjustable square rod</th>
<th>Flexible rod actuator</th>
<th>Adjustable round rod</th>
<th>Polymer roller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø18 mm roller</td>
<td>Ø18 mm roller</td>
<td>3x3x125 mm</td>
<td>Flexible rod actuator</td>
<td>3x3x125 mm</td>
<td>Ø 20 mm</td>
</tr>
</tbody>
</table>

VF LE30
VF LE31
VF LE33
VF LE34
VF LE50
VF LE51

VF LE52
VF LE53
VF LE54
VF LE55
VF LE56
VF LE57
VF LE69

- Only orders for multiple quantities of the packs are accepted.
- 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.
- The position switch obtained by assembling the switch FK •38 (e.g. FK 338, FK 3338) with the actuator VF LE53 will not present the same travel diagrams and actuating forces as the position switch FK •53-E0V9 (e.g. FK 353-E0, FK 3353-E0V9...).
- The actuator cannot be oriented to inside direction because it will mechanically interfere with the switch head.

Accessories: See page 5/1
Special loose actuators

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

Ø 20 mm stainless steel rollers

Ø 35 mm polymer rollers

Ø 40 mm rubber rollers

Ø 50 mm rubber rollers

Ø 50 mm overhanging rubber rollers