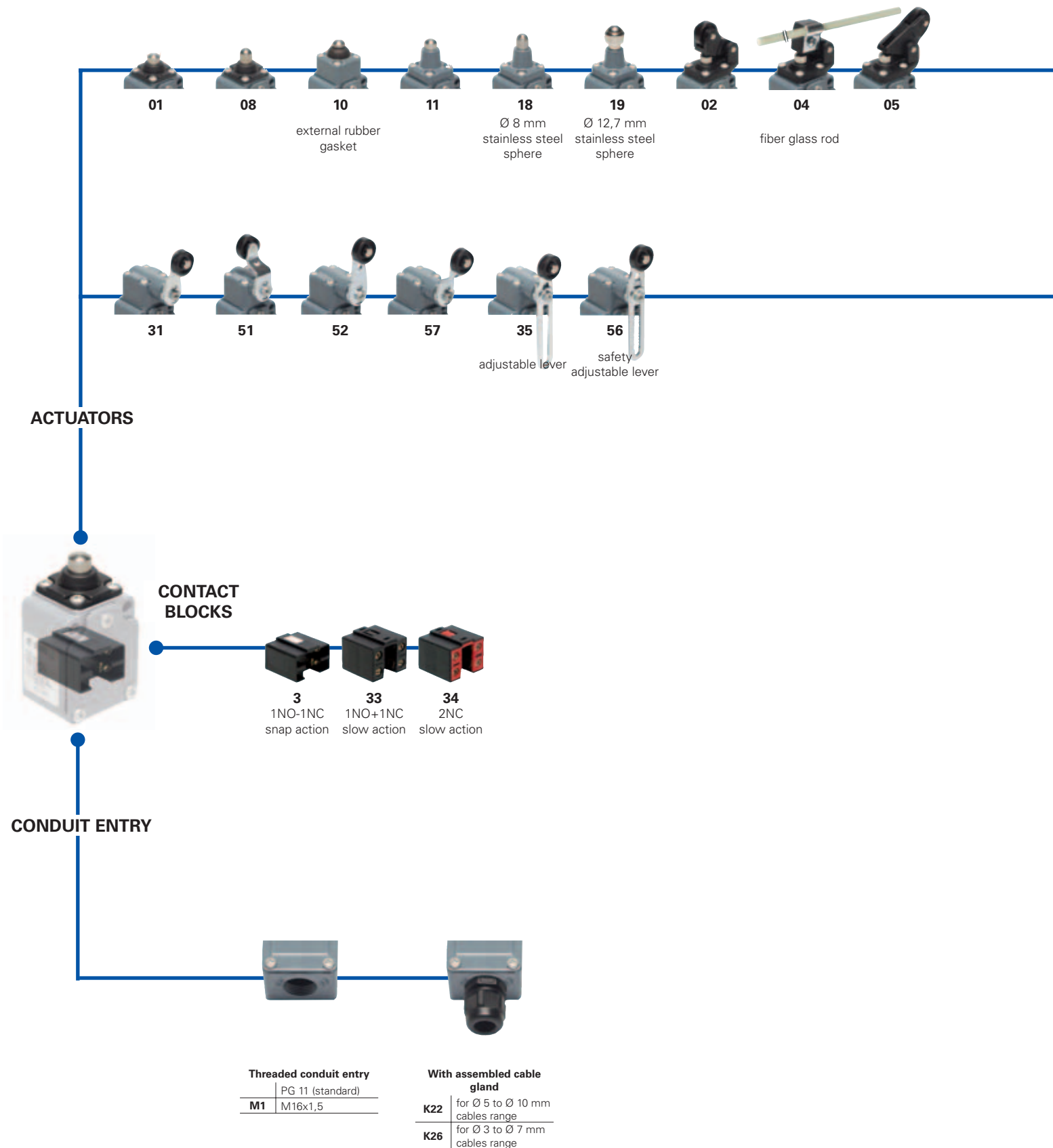


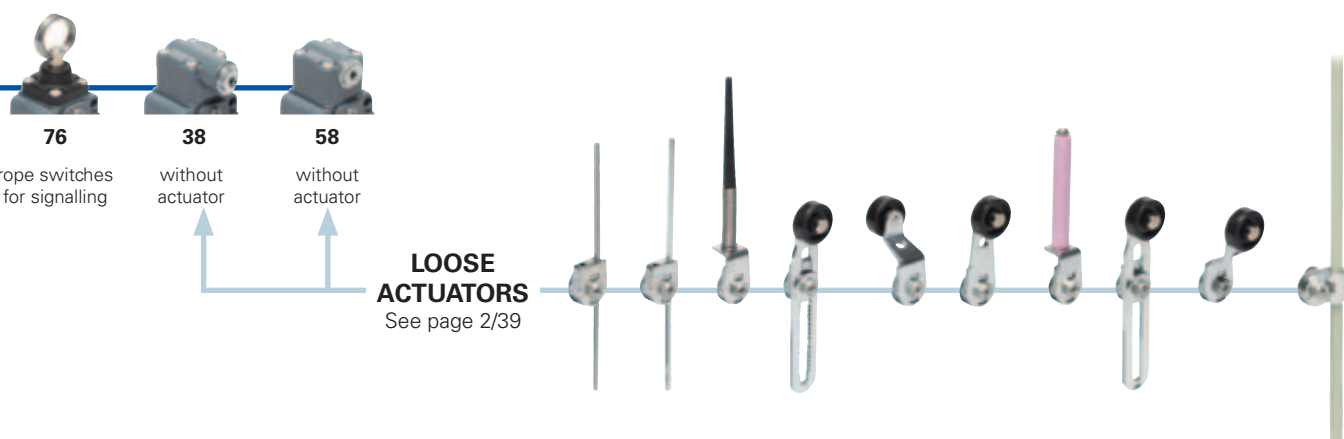
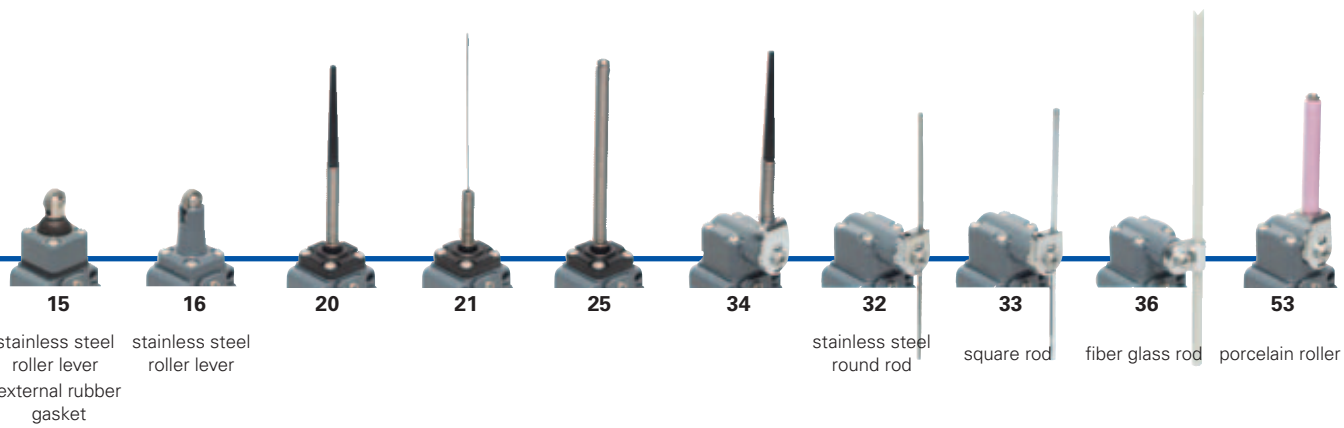


Selection diagram



 product option
 accessory sold separately



- 1
- 1A
- 1B
- 2
- 2A
- 2B
- 2C
- 2D
- 2E
- 3
- 3A
- 3B
- 3C
- 4
- 4A
- 4B
- 4C
- 4D
- 4E
- 4F
- 4G
- 4H
- 5
- 6

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
FC 302-1GM1K22

| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">Housing</th></tr> <tr><td>FC</td><td>metal housing, one conduit entry</td></tr> <tr><th colspan="2">Contact blocks</th></tr> <tr><td>3</td><td>1NO-1NC, snap action</td></tr> <tr><td>33</td><td>1NO+1NC, slow action</td></tr> <tr><td>34</td><td>2NC, slow action</td></tr> <tr><th colspan="2">Actuators</th></tr> <tr><td>01</td><td>short plunger</td></tr> <tr><td>02</td><td>roller lever</td></tr> <tr><td>05</td><td>offset roller lever</td></tr> <tr><td>...</td><td>.....</td></tr> <tr><th colspan="2">Suffix</th></tr> <tr><td></td><td>no suffix (standard)</td></tr> <tr><td>1</td><td>with Ø 20 mm stainless steel roller for actuators 02, 05, 31, 35, 51, 52, 56, 57,</td></tr> <tr><td>2</td><td>with Ø 35 mm polymer roller (see special loose actuators on page 2/40)</td></tr> <tr><td>3</td><td>with Ø 50 mm rubber roller (see special loose actuators on page 2/40)</td></tr> <tr><td>4</td><td>with Ø 50 mm overhanging rubber roller (see special loose actuators on page 2/40)</td></tr> </table> | Housing | | FC | metal 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 Ø 20 mm stainless steel roller for actuators 02, 05, 31, 35, 51, 52, 56, 57, | 2 | with Ø 35 mm polymer roller (see special loose actuators on page 2/40) | 3 | with Ø 50 mm rubber roller (see special loose actuators on page 2/40) | 4 | with Ø 50 mm overhanging rubber roller (see special loose actuators on page 2/40) | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">Preinstalled cable gland</th></tr> <tr><td></td><td>no cable gland (standard)</td></tr> <tr><td>K22</td><td>with assembled cable gland suitable for Ø 5 to Ø 10 mm cables range</td></tr> <tr><td>K26</td><td>with assembled cable gland suitable for Ø 3 to Ø 7 mm cables range</td></tr> <tr><th colspan="2">Threaded conduit entry</th></tr> <tr><td></td><td>PG 11 (standard)</td></tr> <tr><td>M1</td><td>M16x1,5</td></tr> <tr><th colspan="2">Contacts type</th></tr> <tr><td></td><td>silver contacts (standard)</td></tr> <tr><td>G</td><td>silver contacts gold plated 1 µm (contact block 3 excluded)</td></tr> </table> | Preinstalled cable gland | | | no cable gland (standard) | 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) |
|--|---|--|-----------|----------------------------------|----------------|--|----------|----------------------|-----------|----------------------|-----------|------------------|-----------|--|-----------|---------------|-----------|--------------|-----------|---------------------|-----|-------|--------|--|--|----------------------|----------|---|----------|--|----------|---|----------|---|--|--------------------------|--|--|---------------------------|------------|---|------------|--|------------------------|--|--|------------------|-----------|---------|---------------|--|--|----------------------------|----------|---|
| Housing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FC | metal 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 Ø 20 mm stainless steel roller for actuators 02, 05, 31, 35, 51, 52, 56, 57, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | with Ø 35 mm polymer roller (see special loose actuators on page 2/40) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | with Ø 50 mm rubber roller (see special loose actuators on page 2/40) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | with Ø 50 mm overhanging rubber roller (see special loose actuators on page 2/40) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preinstalled cable gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | no cable gland (standard) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Main data

- Metal housing, one conduit entry
- Protection degree IP67
- 3 contact blocks available
- 26 actuators available
- Silver contacts gold plated versions

Technical data

Housing

Metal housing, coated with baked epoxy powder
 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 cycles¹/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 mm ² | (1 x AWG 22) |
| | max. | 2 x 1,5 mm ² | (2 x AWG 16) |
| Contact block 3: | min. | 1 x 0,5 mm ² | (1 x AWG 20) |
| | max. | 2 x 1,5 mm ² | (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

Markings and quality marks:



Approval IMQ: EG605
 Approval UL: E131787
 Approval CCC: 2007010305230000
 Approval ECU: 1010151

In conformity with requirements requested by:

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

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 6/4. 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

Utilization categories

| | | | | | | |
|-------------------|---|----------------------------------|--------------------------------------|-----|-----|-----|
| without connector | Thermal current (I _{th}): | 10 A | Alternate current: AC15 (50...60 Hz) | | | |
| | Rated insulation voltage (U _i): | 500 Vac 600 Vdc | U _e (V) | 250 | 400 | 500 |
| | | 400 Vac 500 Vdc | I _e (A) | 6 | 4 | 1 |
| | | for contact blocks 33, 34 | Direct current: DC13 | | | |
| | Conditional short circuit current: | 1000 A according to EN 60947-5-1 | U _e (V) | 24 | 125 | 250 |
| | Protection against short circuits: | fuse 10 A 500 V type aM | I _e (A) | 6 | 1,1 | 0,4 |
| Pollution degree: | 3 | | | | | |



Data type approved by IMQ, CCC and EZU

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 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)

Data of the housing type 1, 4X "indoor use only"; 12, 13

For all contact blocks except 2 and 3 use 60 or 75 °C copper (Cu) conductor and wire size No. 12-14 AWG. Terminal tightening torque of 7,1 lb in (0,8 Nm).

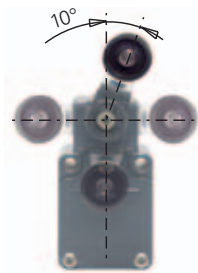
For contact blocks 2 and 3 use 60 or 75 °C copper (Cu) conductor and wire size No. 14 AWG. Terminal tightening torque of 12 lb in (1,4 Nm).

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.



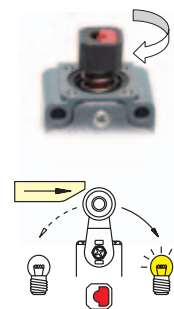
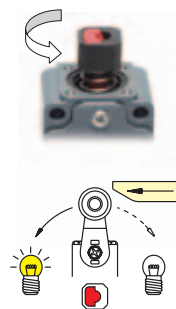
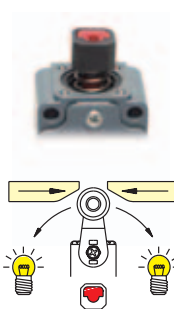
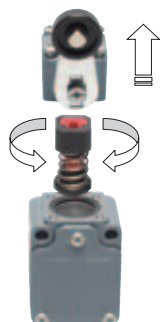
Rotating heads

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



Unidirectional heads

In the switches with revolving lever, it is possible to select the directional operation by removing the four screws of the head and revolving the internal piston.



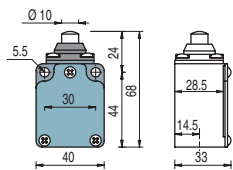
- 1
- 1A
- 1B
- 2
- 2A
- 2B
- 2C
- 2D
- 2E
- 3
- 3A
- 3B
- 3C
- 4
- 4A
- 4B
- 4C
- 4D
- 4E
- 4F
- 4G
- 4H
- 5
- 6

2A Position switches FC series

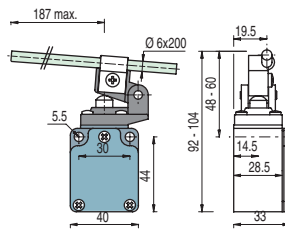
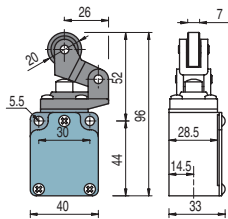
Contacts type:

R = snap action
L = slow action

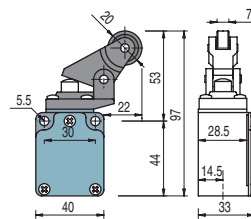
Contact blocks



With stainless steel roller on request

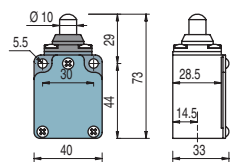


With stainless steel roller on request

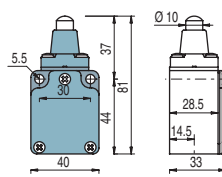
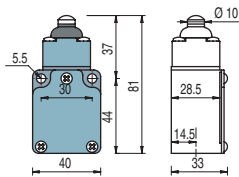


| | | | | | | | | | |
|-----------------|----------|--------------------|-----------|--------------------|-----------|--------------------|---------|--------------------|-----------|
| 3 | R | FC 301 | 1NO-1NC | FC 302 | 1NO-1NC | FC 304 | 1NO-1NC | FC 305 | 1NO-1NC |
| 33 | L | FC 3301 | ⊕ 1NO+1NC | FC 3302 | ⊕ 1NO+1NC | FC 3304 | 1NO+1NC | FC 3305 | ⊕ 1NO+1NC |
| 34 | L | FC 3401 | ⊕ 2NC | FC 3402 | ⊕ 2NC | FC 3404 | 2NC | FC 3405 | ⊕ 2NC |
| Max speed | | page 6/3 - type 4 | | page 6/3 - type 3 | | 0,5 m/s | | page 6/3 - type 3 | |
| Min. force | | 6 N (25 N ⊕) | | 4 N (25 N ⊕) | | 0,17 Nm | | 4 N (25 N ⊕) | |
| Travel diagrams | | page 6/4 - group 1 | | page 6/4 - group 2 | | page 6/4 - group 1 | | page 6/4 - group 2 | |

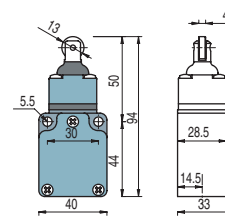
Contact blocks



With external rubber gasket

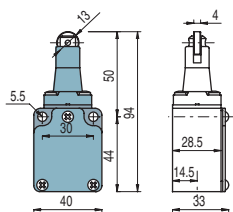


With external rubber gasket

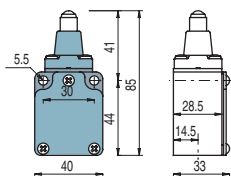


| | | | | | | | | | |
|-----------------|----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|
| 3 | R | FC 308 | 1NO-1NC | FC 310 | 1NO-1NC | FC 311 | 1NO-1NC | FC 315 | 1NO-1NC |
| 33 | L | FC 3308 | ⊕ 1NO+1NC | FC 3310 | ⊕ 1NO+1NC | FC 3311 | ⊕ 1NO+1NC | FC 3315 | ⊕ 1NO+1NC |
| 34 | L | FC 3408 | ⊕ 2NC | FC 3410 | ⊕ 2NC | FC 3411 | ⊕ 2NC | FC 3415 | ⊕ 2NC |
| Max speed | | page 6/3 - type 4 | | page 6/3 - type 4 | | page 6/3 - type 4 | | page 6/3 - type 2 | |
| Min. force | | 6 N (25 N ⊕) | | 7 N (25 N ⊕) | | 6 N (25 N ⊕) | | 7 N (25 N ⊕) | |
| Travel diagrams | | page 6/4 - group 1 | | page 6/4 - group 1 | | page 6/4 - group 1 | | page 6/4 - group 1 | |

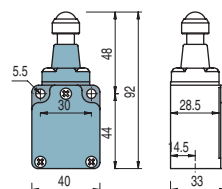
Contact blocks



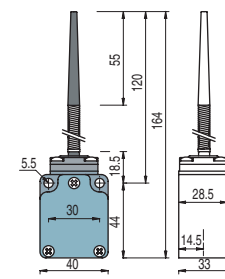
Ø 8 mm stainless steel sphere



Ø 12,7 mm stainless steel sphere



With external rubber gasket



| | | | | | | | | | |
|-----------------|----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|---------|
| 3 | R | FC 316 | 1NO-1NC | FC 318 | 1NO-1NC | FC 319 | 1NO-1NC | FC 320 | 1NO-1NC |
| 33 | L | FC 3316 | ⊕ 1NO+1NC | FC 3318 | ⊕ 1NO+1NC | FC 3319 | ⊕ 1NO+1NC | FC 3320 | 1NO+1NC |
| 34 | L | FC 3416 | ⊕ 2NC | FC 3418 | ⊕ 2NC | FC 3419 | ⊕ 2NC | FC 3420 | 2NC |
| Max speed | | page 6/3 - type 2 | | page 6/3 - type 4 | | page 6/3 - type 4 | | 1 m/s | |
| Min. force | | 6 N (25 N ⊕) | | 6 N (25 N ⊕) | | 6 N (25 N ⊕) | | 0,07 Nm | |
| Travel diagrams | | page 6/4 - group 1 | | page 6/4 - group 1 | | page 6/4 - group 1 | | page 6/4 - group 3 | |

Accessories See page 5/1

All measures in the drawings are in mm



Contacts type:

R = snap action
L = slow action

Contact blocks

| | With external rubber gasket | With external rubber gasket | Other rollers available. See page 2/40 | Ø 3 mm stainless steel round rod |
|-----------------|-----------------------------|-----------------------------|--|----------------------------------|
| 3 R | FC 321 1NO-1NC | FC 325 1NO-1NC | FC 331 1NO-1NC | FC 332 1NO-1NC |
| 33 L | FC 3321 1NO+1NC | FC 3325 1NO+1NC | FC 3331 \ominus 1NO+1NC | FC 3332 1NO+1NC |
| 34 L | FC 3421 2NC | FC 3425 2NC | FC 3431 \ominus 2NC | FC 3432 2NC |
| Max speed | 1 m/s | 1 m/s | page 6/3 - type 1 | 1,5 m/s |
| Min. force | 0,06 Nm | 0,1 Nm | 0,09 Nm (0,25 Nm \ominus) | 0,09 Nm |
| Travel diagrams | page 6/4 - group 3 | page 6/4 - group 3 | page 6/4 - group 4 | page 6/4 - group 4 |

Contact blocks

| | 3x3 mm square rod | Other rollers available. See page 2/40 | Fiber glass rod |
|-----------------|--------------------|--|--|
| 3 R | FC 333 1NO-1NC | FC 334 1NO-1NC | FC 335 1NO-1NC |
| 33 L | FC 3333 1NO+1NC | FC 3334 1NO+1NC | FC 3335 \ominus ⁽¹⁾ 1NO+1NC |
| 34 L | FC 3433 2NC | FC 3434 2NC | FC 3435 \ominus ⁽¹⁾ 2NC |
| Max speed | 1,5 m/s | 1 m/s | page 6/3 - type 1 |
| Min. force | 0,09 Nm | 0,09 Nm | 0,09 Nm (0,25 Nm \ominus) |
| Travel diagrams | page 6/4 - group 4 | page 6/4 - group 4 | page 6/4 - group 4 |

Contact blocks

| | Other rollers available. See page 2/40 | Other rollers available. See page 2/40 | Porcelain roller | Other rollers available. See page 2/40 |
|-----------------|--|--|---------------------------------|--|
| 3 R | FC 351 1NO-1NC | FC 352 1NO-1NC | FC 353-E11 1NO-1NC | FC 356 1NO-1NC |
| 33 L | FC 3351 \ominus 1NO+1NC | FC 3352 \ominus 1NO+1NC | FC 3353-E11V9 \ominus 1NO+1NC | FC 3356 \ominus 1NO+1NC |
| 34 L | FC 3451 \ominus 2NC | FC 3452 \ominus 2NC | FC 3453-E11V9 \ominus 2NC | FC 3456 \ominus 2NC |
| Max speed | page 6/3 - type 1 | page 6/3 - type 1 | 0,5 m/s | page 6/3 - type 1 |
| Min. force | 0,05 Nm (0,25 Nm \ominus) | 0,05 Nm (0,25 Nm \ominus) | 0,02 Nm (0,25 Nm \ominus) | 0,09 Nm (0,25 Nm \ominus) |
| Travel diagrams | page 6/4 - group 4 | page 6/4 - group 4 | page 6/4 - group 5 | page 6/4 - group 4 |

Items with code on the green background are available in stock

⁽¹⁾ Positive opening only with lever adjusted on the max. See page 2/40

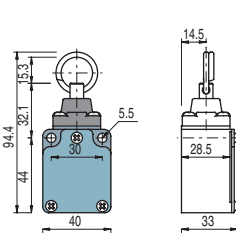
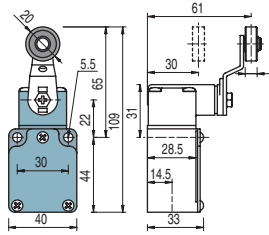
2A Position switches FC series

Contacts type:

R = snap action
L = slow action

Other rollers available. See page 2/40

Rope switches for signalling



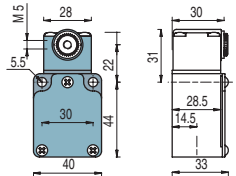
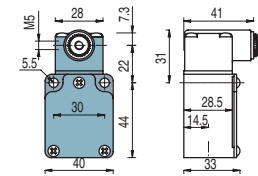
Contact blocks

| | | | | | |
|-----------------|----------|--------------------|---------|---------------------------|---------|
| 3 | R | FC 357 | 1NO-1NC | FC 376 | 1NO-1NC |
| 33 | L | FC 3357 | 1NO+1NC | FC 3376 | 1NO+1NC |
| 34 | L | FC 3457 | 2NC | FC 3476 | 2NC |
| Max speed | | page 6/3 - type 1 | | 0,5 m/s | |
| Min. force | | 0,09 Nm (0,25 Nm) | | initial 20 N - final 40 N | |
| Travel diagrams | | page 6/4 - group 4 | | page 6/4 - group 6 | |

Position switches with revolving lever without actuator

Regular head

Compact head



Contact blocks

| | | | | | |
|-----------------|----------|--------------------|---------|--------------------|---------|
| 3 | R | FC 338 | 1NO-1NC | FC 358 | 1NO-1NC |
| 33 | L | FC 3338 | 1NO+1NC | FC 3358 | 1NO+1NC |
| 34 | L | FC 3438 | 2NC | FC 3458 | 2NC |
| Min. force | | 0,09 Nm (0,25 Nm) | | 0,05 Nm (0,25 Nm) | |
| Travel diagrams | | page 6/4 - group 4 | | page 6/4 - group 4 | |

IMPORTANT

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

For more information about safety applications see page 6/1.

Loose actuators

10 pcs pack

IMPORTANT: These loose actuators can be used with items of series FD, FP, FL, FC only

| Polymer roller Ø 20 mm | Adjustable round rod Ø 3x125 mm | Adjustable square rod 3x3x125 mm | Flexible rod actuator | Adjustable actuator with polymer roller | Adjustable fiber glass rod |
|---------------------------|------------------------------------|-------------------------------------|---|--|----------------------------|
| | | | | | |
| VF L31 ⊕ | VF L32 (3) | VF L33 (3) | VF L34 | VF L35 ⊕ (1) (3) | VF L36 (3) |
| Polymer roller Ø 20 mm | Polymer roller Ø 20 mm | Porcelain roller | Adjustable safety actuator with polymer roller | Polymer roller Ø 20 mm | |
| | | | | | |
| VF L51 ⊕ | VF L52 ⊕ | VF L53 ⊕ (2) | VF L56 ⊕ (3) | VF L57 ⊕ | |

Accessories See page 5/1

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



Special loose actuators

10 pcs pack

IMPORTANT: These loose actuators can be used with items of series FD, FP, FL, FC only

Ø 20 mm stainless steel rollers

| | | | | | |
|--------------|------------------|--------------|--------------|--------------|--------------|
| | | | | | |
| VF L31-1 (1) | VF L35-1 (1) (3) | VF L51-1 (1) | VF L52-1 (1) | VF L56-1 (3) | VF L57-1 (1) |

Ø 35 mm polymer rollers

| | | | | | |
|--------------|------------------|--------------|--------------|--------------|--------------|
| | | | | | |
| VF L31-2 (4) | VF L35-2 (1) (3) | VF L51-2 (4) | VF L52-2 (1) | VF L56-2 (3) | VF L57-2 (1) |

Ø 40 mm rubber rollers

| | | | | | |
|---------------|-------------------|---------------|---------------|---------------|---------------|
| | | | | | |
| VF L31-R5 (4) | VF L35-R5 (1) (3) | VF L51-R5 (4) | VF L52-R5 (1) | VF L56-R5 (3) | VF L57-R5 (4) |

Ø 50 mm rubber rollers

| | | | | | |
|--------------|------------------|--------------|--------------|--------------|--------------|
| | | | | | |
| VF L31-3 (4) | VF L35-3 (1) (3) | VF L51-3 (4) | VF L52-3 (4) | VF L56-3 (3) | VF L57-3 (4) |

Ø 50 mm overhanging rubber rollers

| | |
|------------------|--------------|
| | |
| VF L35-4 (1) (3) | VF L56-4 (3) |

- Only orders for multiple quantities of the packs are accepted.
- (1) Actuator VF L35 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 L56.
- (2) The position switch obtained by assembling the switch FC •58 (e.g. FC 358, FC 3358) with the actuator VF L53 will not present the same travel diagrams and actuating forces as the position switch FC •53-E11 (e.g. FC 353-E11, FC 3353-E11V9...).
- (3) If it is installed with switch FC •58 (e.g. FC 358, FC 3358..), the actuator can mechanically interfere with the housing of the switch. The interference could happen or not according to the actuator and the head fixing position.
- (4) The actuator cannot be oriented to inside direction because it will mechanically interfere with the switch head.

