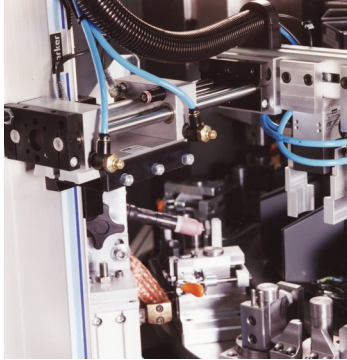
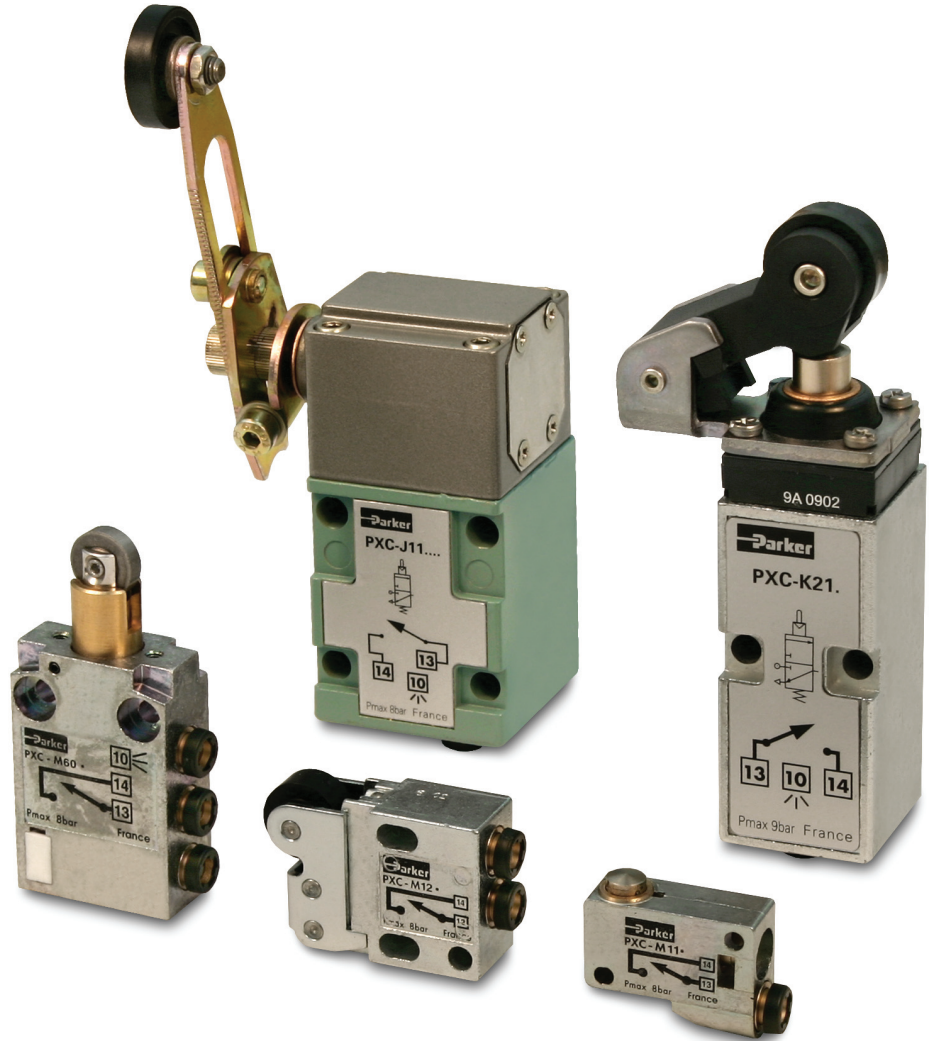
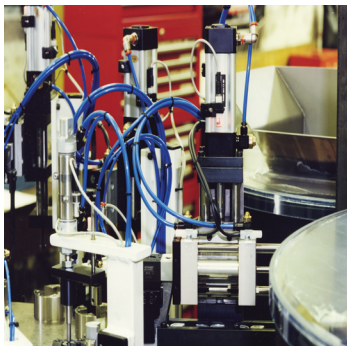




aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
**pneumatics**  
process control  
sealing & shielding



# Limit Switches, Bleed sensors

PDE2629TCUK August 2009



ENGINEERING YOUR SUCCESS.

| Summary                                   | Page    |
|-------------------------------------------|---------|
| Presentation                              | 3       |
| PXC Limit switches                        |         |
| - Miniatures, compact                     | 4 - 5   |
| - K Series                                | 6 - 7   |
| - J Series                                | 8 - 11  |
| - Dimensions                              | 12 - 14 |
| Limit switches, Mini poppet valves M43303 | 15      |
| Bleed sensors, bleed sensors relay        | 16      |

**Important !**

Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.

**NB !**

All technical data in this catalogue is typical only.  
The air quality is decisive for the valve life: see ISO 8573.

**WARNING**

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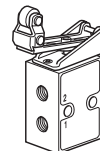
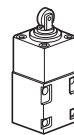
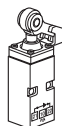
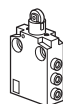
**SALE CONDITIONS**

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## Limit Switches and Bleed Sensors

### Limit switches Control and process only

### Bleed Sensors



| Series                                  | Miniature     | Compact       | K-series         | J-series                              | M43                | PXF          |
|-----------------------------------------|---------------|---------------|------------------|---------------------------------------|--------------------|--------------|
| Connection, * Push-in                   | Ø4*           | Ø4*           | Ø4* or M5        | Ø4*                                   | M5                 | Ø4* or M5    |
| Flow at 6 bar, Qn l/s<br>Qmax l/s<br>Cv | 1             | 4,2           | 2                | 3,5                                   | 1<br>1,89<br>0,127 | 3            |
| Pipeable exhaust                        |               | No            | Yes              | No                                    | Yes                | No           |
| Working temperature                     | -15 to +60°C  | -15 to +60°C  | -15 to +60°C     | -15 to +60°C                          | -10 to +80°C       | -15 to +60°C |
| Pneumatic switching                     | 3/2 NC        | 3/2 NC        | 3/2 NC<br>3/2 NO | 3/2 NC<br>3/2 NO                      | 3/2 NC             |              |
| Construction material                   | Zinc die cast | Zinc die cast | Zinc die cast    | Turrethead<br>Zinc die cast,<br>brass | Zinc die cast      | Brass        |
| Interchangeable with electrical version |               | Yes           | Yes              | Yes                                   |                    |              |
| Actuator type                           |               |               |                  |                                       |                    |              |
| Air hydraulic oil, fresh water, brine   |               |               |                  |                                       |                    |              |
| Plunger                                 | ●             | ●             | ●                | ●                                     | ●                  |              |
| Roller                                  |               | ●             |                  | ●                                     | ●                  |              |
| Roller plunger                          |               | ●             | ●                | ●                                     |                    |              |
| Roller lever                            | ●             |               | ●                |                                       | ●                  |              |
| Whisker                                 |               |               | ●                | ●                                     |                    |              |
| Variable offset lever                   |               |               | ●                | ●                                     |                    |              |
| Ball operated                           |               |               |                  |                                       |                    |              |
| Cam                                     |               |               |                  | ●                                     |                    |              |
| Refer to page                           | 5             | 5             | 6                | 8                                     | 15                 | 16           |

- High durability
- Very good repeat accuracy
- Design for process duty cycle
- Push-in or threaded connection
- Versatile and easily maintained
- Wide range of body size and actuator style



Operating information

|                                                                                                               |  |                             |          |                 |                 |                 |                               |
|---------------------------------------------------------------------------------------------------------------|--|-----------------------------|----------|-----------------|-----------------|-----------------|-------------------------------|
| Working pressure;<br>PXC-M101, PXC-M111, PXC-M121,<br>PXC-M521, PXC-M601,<br>PXC-J: 3-8 bar<br>PXC-K: 3-9 bar |  |                             |          | <b>PXC-M101</b> | <b>PXC-M111</b> | <b>PXC-M121</b> | <b>PXC-M521/<br/>PXC-M601</b> |
|                                                                                                               |  | Flow:<br>(acc. to ISO 6358) | Qmax= 60 | 60              | 85              | 250 l/s         |                               |
| Working temperature -15 °C to +60 °C                                                                          |  |                             |          |                 | <b>PXC-K</b>    | <b>PXC-J</b>    |                               |
|                                                                                                               |  | Flow:<br>(acc. to ISO 6358) | Qmax=    | 210             | 210 l/s         |                 |                               |

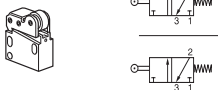
### 3/2 miniatures limit switches

With Ø4 mm Push-in connections (M5 on request)

#### Bore Ø1,5 mm, flow 60 NI/min

| Symbol                                                                            | Actuator                           | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code      |
|-----------------------------------------------------------------------------------|------------------------------------|--------|---------------------------------|--------------|-----------------|
|  | Steel plunger                      | Spring | 11                              | 0,030        | <b>PXC-M111</b> |
|                                                                                   | Steel plunger                      | Spring | 11                              | 0,030        | <b>PXC-M101</b> |
| <b>Operating levers</b>                                                           |                                    |        |                                 |              |                 |
|  | Plastic roller lever               |        |                                 | 0,008        | <b>PXC-Z11</b>  |
|                                                                                   | Plastic roller lever, one way trip |        |                                 | 0,008        | <b>PXC-Z12</b>  |

#### Bore Ø1,5 mm, flow 85 NI/min

| Symbol                                                                             | Actuator       | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code      |
|------------------------------------------------------------------------------------|----------------|--------|---------------------------------|--------------|-----------------|
|  | Plastic roller | Spring | 4,5                             | 0,040        | <b>PXC-M121</b> |
|                                                                                    | Steel roller   | Spring | 4,5                             | 0,045        | <b>PXC-M131</b> |

#### Bore Ø2,5 mm, flow 250 NI/min

| Symbol                                                                              | Actuator       | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code      |
|-------------------------------------------------------------------------------------|----------------|--------|---------------------------------|--------------|-----------------|
|  | Plastic roller | Spring | 7                               | 0,060        | <b>PXC-M521</b> |

### 3/2 compact limit switches

With Ø4 mm Push-in connections  
with pipeable exhaust port

#### Bore Ø2,5 mm, flow 250 NI/min

With plunger head

| Symbol                                                                              | Actuator      | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code          |
|-------------------------------------------------------------------------------------|---------------|--------|---------------------------------|--------------|---------------------|
|  | Steel plunger | Spring | 24                              | 0,150        | <b>PXC-M601A110</b> |

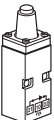
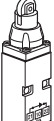
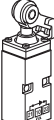
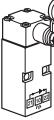
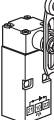
|                                                                                  | Symbol                                                                            | Actuator                    | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------|--------|---------------------------------|--------------|---------------------|
|  |  | Steel roller<br>plunger     | Spring | 24                              | 0,160        | <b>PXC-M601A102</b> |
|  |  | 90° steel roller<br>plunger | Spring | 24                              | 0,160        | <b>PXC-M601A103</b> |

### 3/2 limit switches “K series”

With Ø4 mm Push-in connections  
with pipeable exhaust port  
snap action and low operating force

#### Bore Ø3 mm

With plunger

|                                                                                    | Symbol                                                                              | Actuator                                 | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code          |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|--------|---------------------------------|--------------|---------------------|
|   |   | Steel plunger                            | Spring | 16 N                            | 0,270        | <b>PXC-K21101</b>   |
|  |  | Steel plunger                            | Spring | 16 N                            | 0,270        | <b>PXC-K22101</b>   |
|  |  | Steel roller<br>plunger                  | Spring | 16 N                            | 0,310        | <b>PXC-K21102</b>   |
|  |  | Steel roller<br>plunger                  | Spring | 16 N                            | 0,310        | <b>PXC-K22102</b>   |
|  |  | Plastic roller<br>plunger                | Spring | 16 N                            | 0,320        | <b>PXC-K21121</b>   |
|  |  | Plastic roller<br>plunger                | Spring | 16 N                            | 0,320        | <b>PXC-K22121</b>   |
|  |  | Whisker                                  | Spring | 0,05 Nm                         | 0,270        | <b>PXC-K21106</b>   |
|  |  | Whisker                                  | Spring | 0,05 Nm                         | 0,270        | <b>PXC-K22106</b>   |
|  |  | Plastic roller<br>lever *                | Spring | 0,21 Nm                         | 0,360        | <b>PXC-K2110531</b> |
|  |  | Plastic roller<br>lever *                | Spring | 0,21 Nm                         | 0,360        | <b>PXC-K2210531</b> |
|  |  | Adjustable lever<br>with Delrin roller * | Spring | 0,21 Nm                         | 0,360        | <b>PXC-K2110541</b> |
|  |  | Adjustable lever<br>with Delrin roller   | Spring | 0,21 Nm                         | 0,360        | <b>PXC-K2210541</b> |

\* Direction of actuation can be set as required

- from right and left
- from right
- from left

### 3/2 limit switches “K series”

#### Bore Ø3 mm

Pneumatic switch bodies, for use in association with all **ZCK-D..** series operating heads

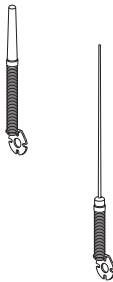
|                                                                                   | Symbol                                                                            | Actuator | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|--------|---------------------------------|--------------|-----------------|
|  |  | -        |        | 16                              | 0,320        | <b>PXC-K211</b> |
|                                                                                   |  | -        |        | 16                              | 0,320        | <b>PXC-K221</b> |

Pneumatic switch bodies with rotary heads

Direction of actuation can be set as required:

- From right and left
- From right
- From left

|                                                                                   | Symbol                                                                            | Actuator    | Return | Operating forces<br>at 6 bar, Nm | Weight<br>kg | Order code        |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------|--------|----------------------------------|--------------|-------------------|
|  |  | Rotary head | Spring | 0,21                             | 0,340        | <b>PXC-K21105</b> |
|                                                                                   |  | Rotary head | Spring | 0,21                             | 0,340        | <b>PXC-K22105</b> |

|                                                                                                          | Actuator          | Weight<br>kg | Order code     |
|----------------------------------------------------------------------------------------------------------|-------------------|--------------|----------------|
| <b>Rod</b><br>        | Ø3 mm fibre glass | 0,025        | <b>ZCK-Y55</b> |
|                                                                                                          | Square steel 3 mm | 0,025        | <b>ZCK-Y54</b> |
| <b>Spring rod</b><br> | Plastic           | 0,010        | <b>ZCK-Y81</b> |
|                                                                                                          | Metal             | 0,030        | <b>ZCK-Y91</b> |

### 3/2 limit switches “J series”

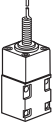
With Ø4 mm Push-in connections (M5 or G1/8 on request)

With pipeable exhaust port

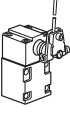
Snap action and low operating force

#### Bore Ø3 mm

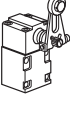
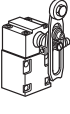
With plunger head

|                                                                                  | Symbol                                                                            | Actuator             | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code        |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------|--------|---------------------------------|--------------|-------------------|
|  |  | Steel plunger        | Spring | 16                              | 0,515        | <b>PXC-J11161</b> |
|                                                                                  |  | Steel plunger        | Spring | 16                              | 0,515        | <b>PXC-J12161</b> |
|  |  | Steel roller plunger | Spring | 16                              | 0,525        | <b>PXC-J11162</b> |
|                                                                                  |  | Steel roller plunger | Spring | 16                              | 0,525        | <b>PXC-J12162</b> |
|  |  | Whisker              | Spring | 16                              | 0,510        | <b>PXC-J11170</b> |
|                                                                                  |  | Whisker              | Spring | 16                              | 0,510        | <b>PXC-J12170</b> |

With rotary head and operating lever

|                                                                                    | Symbol                                                                              | Actuator  | Direction of<br>actuation | Return | Operating<br>forces<br>at 6 bar, N | Weight<br>kg | Order code          |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|---------------------------|--------|------------------------------------|--------------|---------------------|
|  |  | Rigid rod | Right<br>AND left         | Spring | 0,05                               | 0,570        | <b>PXC-J1110151</b> |
|                                                                                    |  | Rigid rod | Right<br>AND left         | Spring | 0,05                               | 0,570        | <b>PXC-J1210151</b> |
|                                                                                    |  | Rigid rod | Right<br>OR left          | Spring | 0,05                               | 0,570        | <b>PXC-J1110551</b> |
|                                                                                    |  | Rigid rod | Right<br>OR left          | Spring | 0,05                               | 0,570        | <b>PXC-J1210551</b> |

With rotary head and operating lever

|                                                                                    | Symbol                                                                              | Actuator                                        | Direction of<br>actuation | Return | Operating<br>forces<br>at 6 bar, N | Weight<br>kg | Order code          |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------|--------|------------------------------------|--------------|---------------------|
|  |  | Delrin roller lever                             | Right<br>AND left         | Spring | 0,25                               | 0,565        | <b>PXC-J1110111</b> |
|                                                                                    |  |                                                 |                           | Spring | 0,25                               | 0,565        | <b>PXC-J1210111</b> |
|                                                                                    |  | Delrin roller lever                             | Right<br>OR left          | Spring | 0,25                               | 0,565        | <b>PXC-J1110511</b> |
|                                                                                    |  |                                                 |                           | Spring | 0,25                               | 0,565        | <b>PXC-J1210511</b> |
|  |  | Variable length lever with thermoplastic roller | Right<br>AND left         | Spring | 0,25                               | 0,580        | <b>PXC-J1110131</b> |
|                                                                                    |  |                                                 |                           | Spring | 0,25                               | 0,580        | <b>PXC-J1210131</b> |
|                                                                                    |  | Variable length lever with thermoplastic roller | Right<br>OR left          | Spring | 0,25                               | 0,580        | <b>PXC-J1110531</b> |
|                                                                                    |  |                                                 |                           | Spring | 0,25                               | 0,580        | <b>PXC-J1210531</b> |

### 3/2 limit switches “J series”

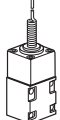
#### With G1/8 connection

With pipeable exhaust port

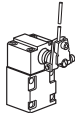
Snap action and low operating force

#### Bore Ø3 mm

With plunger head

|                                                                                   | Symbol                                                                            | Actuator             | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code        |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------|--------|---------------------------------|--------------|-------------------|
|  |  | Steel plunger        | Spring | 16                              | 0,515        | <b>PXC-J11861</b> |
|                                                                                   |  | Steel plunger        | Spring | 16                              | 0,515        | <b>PXC-J12861</b> |
|  |  | Steel roller plunger | Spring | 16                              | 0,525        | <b>PXC-J11862</b> |
|                                                                                   |  | Steel roller plunger | Spring | 16                              | 0,525        | <b>PXC-J12862</b> |
|  |  | Whisker              | Spring | 16                              | 0,510        | <b>PXC-J11870</b> |
|                                                                                   |  | Whisker              | Spring | 16                              | 0,510        | <b>PXC-J12870</b> |

#### With rotary head and operating lever

|                                                                                     | Symbol                                                                              | Actuator  | Direction of<br>actuation | Return | Operating<br>forces<br>at 6 bar, Nm | Weight<br>kg | Order code          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|---------------------------|--------|-------------------------------------|--------------|---------------------|
|  |  | Rigid rod | Right<br>AND left         | Spring | 0,05                                | 0,570        | <b>PXC-J1180151</b> |
|                                                                                     |  | Rigid rod | Right<br>AND left         | Spring | 0,05                                | 0,570        | <b>PXC-J1280151</b> |
|                                                                                     |  | Rigid rod | Right<br>OR left          | Spring | 0,05                                | 0,570        | <b>PXC-J1180551</b> |
|                                                                                     |  | Rigid rod | Right<br>OR left          | Spring | 0,05                                | 0,570        | <b>PXC-J1280551</b> |

#### With rotary head and operating lever

|                                                                                     | Symbol                                                                              | Actuator                                        | Direction of<br>actuation | Return | Operating<br>forces<br>at 6 bar, Nm | Weight<br>kg | Order code          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------|--------|-------------------------------------|--------------|---------------------|
|  |  | Delrin roller lever                             | Right<br>AND left         | Spring | 0,25                                | 0,565        | <b>PXC-J1180111</b> |
|                                                                                     |  |                                                 |                           | Spring | 0,25                                | 0,565        | <b>PXC-J1280111</b> |
|                                                                                     |  | Delrin roller lever                             | Right<br>OR left          | Spring | 0,25                                | 0,565        | <b>PXC-J1180511</b> |
|                                                                                     |  |                                                 |                           | Spring | 0,25                                | 0,565        | <b>PXC-J1280511</b> |
|  |  | Variable length lever with thermoplastic roller | Right<br>AND left         | Spring | 0,25                                | 0,580        | <b>PXC-J1180131</b> |
|                                                                                     |  |                                                 |                           | Spring | 0,25                                | 0,580        | <b>PXC-J1280131</b> |
|                                                                                     |  | Variable length lever with thermoplastic roller | Right<br>OR left          | Spring | 0,25                                | 0,580        | <b>PXC-J1180531</b> |
|                                                                                     |  |                                                 |                           | Spring | 0,25                                | 0,580        | <b>PXC-J1280531</b> |

### 3/2 limit switches “J series”

With Ø4 mm Push-in connections

#### Bore Ø3 mm

Pneumatic switch bodies\*

For use in association with all **ZC2-JC**•

operating heads

|                                                                                  | Symbol                                                                            | Actuator | Return | Operating forces at 6 bar, N | Weight kg | Order code      |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|--------|------------------------------|-----------|-----------------|
|  |  | -        | Spring | 16                           | 0,320     | <b>PXC-J111</b> |
|                                                                                  |  | -        | Spring | 16                           | 0,320     | <b>PXC-J121</b> |

|                                                                                  | Symbol                                                                              | Actuator | Direction of actuation | Return | Operating forces at 6 bar, Nm | Weight kg | Order code        |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|------------------------|--------|-------------------------------|-----------|-------------------|
|  |    | -        | Right AND left         | Spring | 0,05                          | 0,535     | <b>PXC-J11101</b> |
|                                                                                  |    | -        | Right AND left         | Spring | 0,05                          | 0,535     | <b>PXC-J12101</b> |
|                                                                                  |  | -        | Right OR left          | Spring | 0,05                          | 0,535     | <b>PXC-J11105</b> |
|                                                                                  |  | -        | Right OR left          | Spring | 0,05                          | 0,535     | <b>PXC-J12105</b> |

|                                                                                    | Actuator                                 | Weight kg | Order code      |
|------------------------------------------------------------------------------------|------------------------------------------|-----------|-----------------|
|  | Steel roller lever                       | 0,040     | <b>ZC2-JY13</b> |
|  | Spring plastic rod                       | 0,040     | <b>ZC2-JY81</b> |
|  | Spring metal rod                         | 0,040     | <b>ZC2-JY91</b> |
|  | Variable length lever with delrin roller | 0,050     | <b>ZC2-JY41</b> |

\* The switch bodies are available with G1/8 threaded connection.  
Replace the 3rd digit in the reference by 8. Example PXC-J11861

### 3/2 limit switches “J series”

With G1/8 connection

#### Bore Ø3 mm

Pneumatic switch bodies\*

For use in association with all **ZC2-JC** operating heads

|                                                                                   | Symbol                                                                            | Actuator | Return | Operating forces at 6 bar, N | Weight kg | Order code      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|--------|------------------------------|-----------|-----------------|
|  |  | -        |        | 16                           | 0,320     | <b>PXC-J118</b> |
|                                                                                   |  | -        |        | 16                           | 0,320     | <b>PXC-J128</b> |

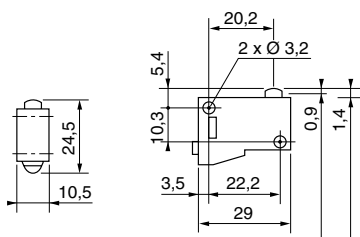
|                                                                                   | Symbol                                                                              | Actuator | Direction of actuation | Return | Operating forces at 6 bar, Nm | Weight kg | Order code        |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|------------------------|--------|-------------------------------|-----------|-------------------|
|  |    | -        | Right AND left         | Spring | 0,05                          | 0,535     | <b>PXC-J11801</b> |
|                                                                                   |    | -        | Right AND left         | Spring | 0,05                          | 0,535     | <b>PXC-J12801</b> |
|                                                                                   |  | -        | Right OR left          | Spring | 0,05                          | 0,535     | <b>PXC-J11805</b> |
|                                                                                   |  | -        | Right OR left          | Spring | 0,05                          | 0,535     | <b>PXC-J12805</b> |

|                                                                                     | Actuator                                 | Weight kg | Order code      |
|-------------------------------------------------------------------------------------|------------------------------------------|-----------|-----------------|
|  | Steel roller lever                       | 0,040     | <b>ZC2-JY13</b> |
|  | Spring plastic rod                       | 0,040     | <b>ZC2-JY81</b> |
|  | Spring metal rod                         | 0,040     | <b>ZC2-JY91</b> |
|  | Variable length lever with delrin roller | 0,050     | <b>ZC2-JY41</b> |

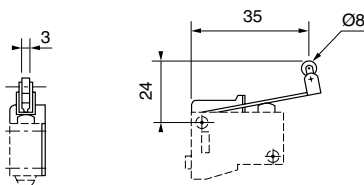
## Dimensions, Limit switches, Series PXC

### 3/2 miniature limit switches

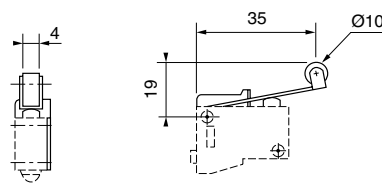
PXC-M111



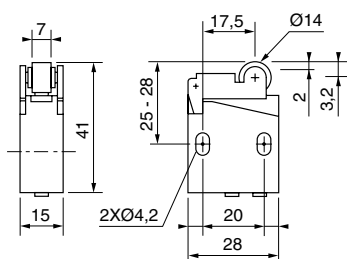
PXC-Z12



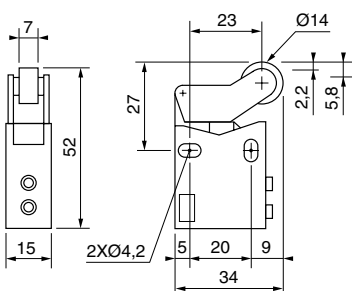
PXC-Z11



PXC-M121 - PXC-M131

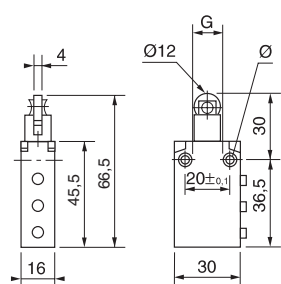


PXC-M521

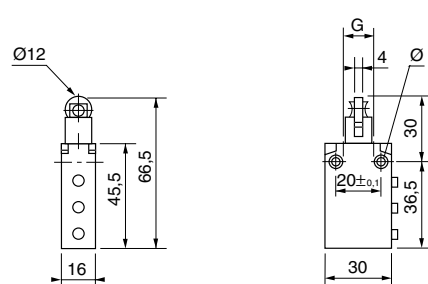


### 3/2 compact limit switches

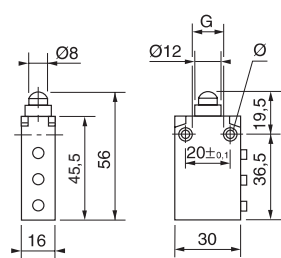
PXC-M601A102



PXC-M601A103

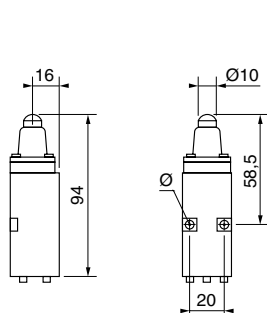


PXC-M601A110

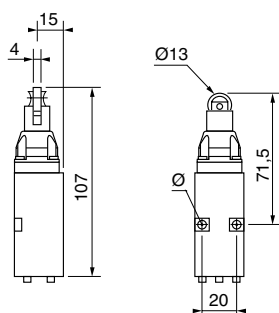


## With plunger heads

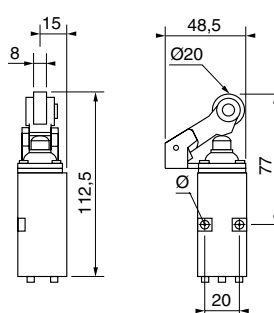
PXC-K21101, PXC-K22101



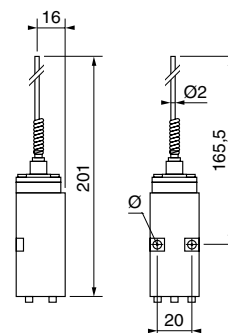
PXC-K21102, PXC-K22102



PXC-K21121, PXC-K22121

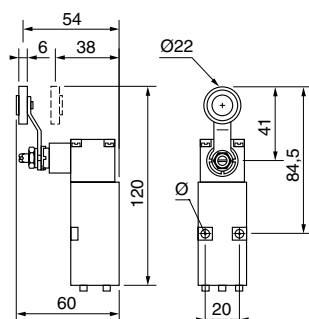


PXC-K21106, PXC-K22106

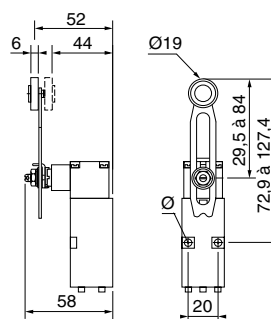


## With rotary heads and operating levers

PXC-K21110531, PXC-K2210531



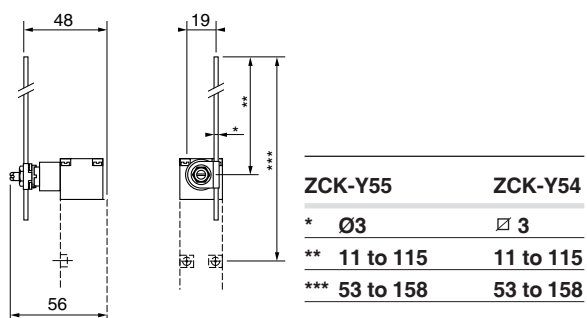
PXC-K21110541, PXC-K2210541



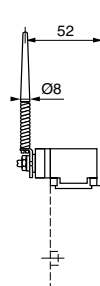
Ø=2 holes Ø5,2 mm

## With rotary heads and operating levers

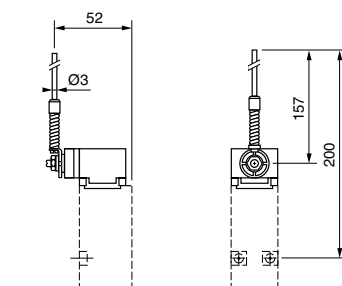
ZCK-Y54, ZCK-Y55



ZCK-Y81

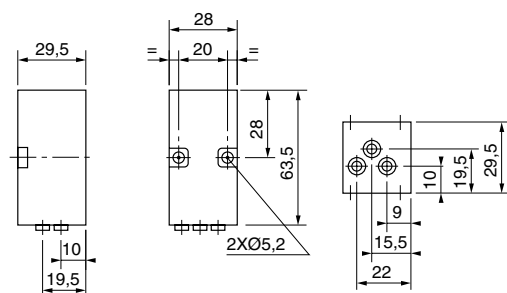


ZCK-Y91



## Pneumatic switch bodies

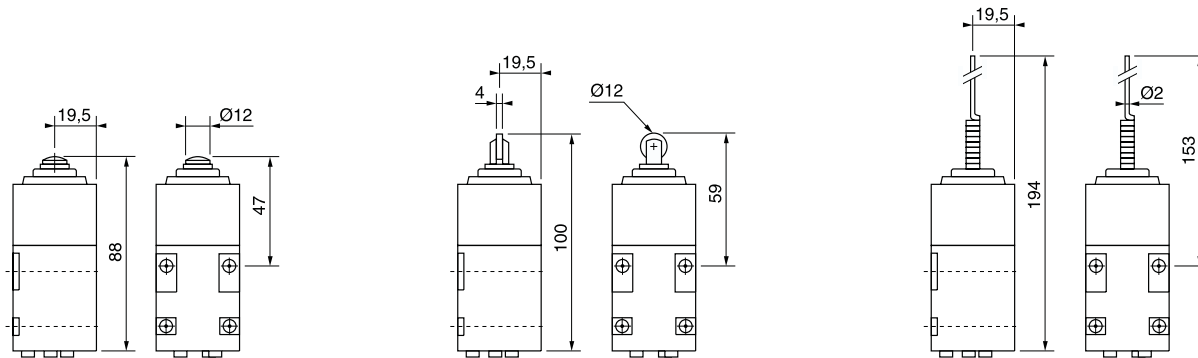
PXC-K211, PXC-K221



## With plunger heads

PXC-J11161, PXC-J12161 PXC-J11162, PXC-J12162

PXC-J11170, PXC-J12170

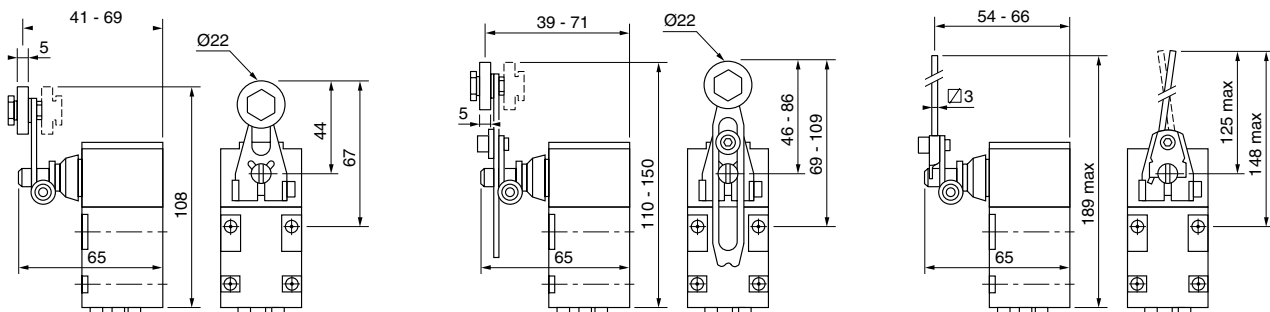


## With rotary heads and operating levers

PXC-J1110111, J1210111, J1110511, J1210511

PXC-J1110131, J1210131, J1110531, J1210531

PXC-J1110151, J1210151, J1110551, J1210551

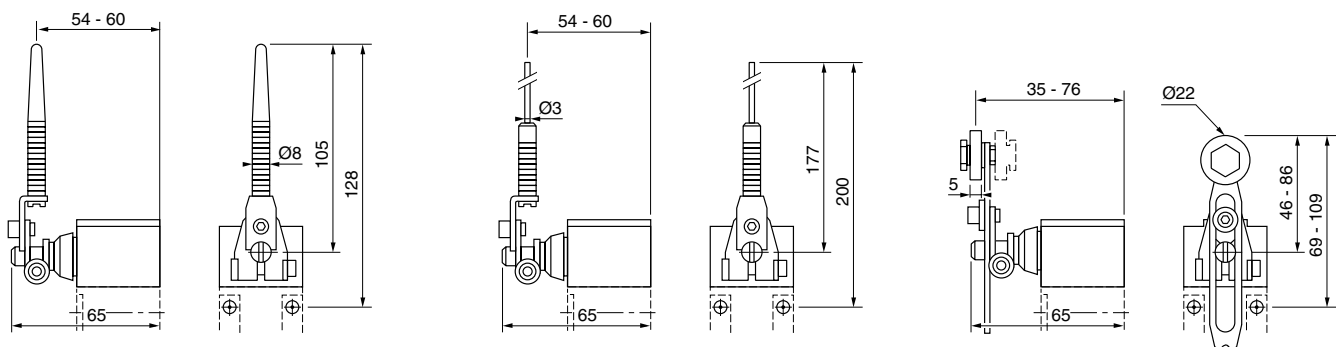


## With rotary heads and operating levers

ZC2-JY81

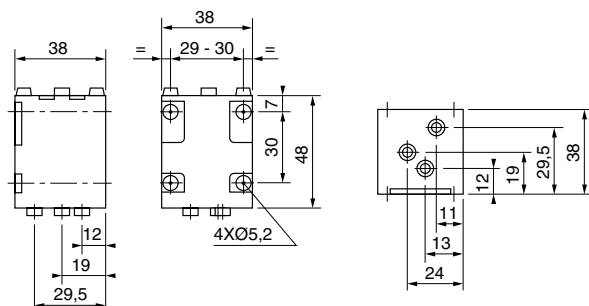
ZC2-JY91

ZC2-JY41

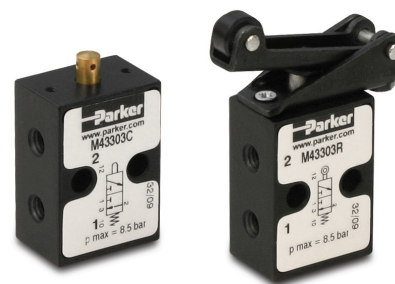


## Pneumatic switch bodies

PXC-J111, PXC-J121



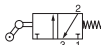
- Ultra small size
- Light actuation forces
- Spring return as standard
- 3/2 NC as standard
- M5 body ported
- Lever adjustment on roller options



## Operating information

|                     |                  |                             |                                                           |
|---------------------|------------------|-----------------------------|-----------------------------------------------------------|
| Working temperature | -10 °C to +80 °C | Flow;<br>(acc. to ISO 6358) | C=0,27<br>b=0,26<br>Qn=1 l/s<br>Qmax=1,89 l/s<br>Cv=0.127 |
| Working pressure    | 0-7 bar          |                             |                                                           |
| Port size           | M5               |                             |                                                           |

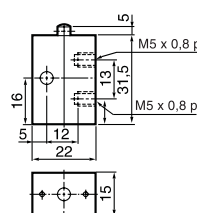
## Main data for Mechanically operated valves, M43303 Series

|                                                                                     | Symbol                                                                              | Actuator             | Return | Operating force at 6 bar, N | Weight kg | Order code     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|--------|-----------------------------|-----------|----------------|
|   |   | Plunger              | Spring | 18                          | 0,054     | <b>M43303C</b> |
|  |  | Roller-Lever         | Spring | 10                          | 0,058     | <b>M43303R</b> |
|  |  | Roller, one way trip | Spring | 10                          | 0,060     | <b>M43303T</b> |
|  |  | Ball                 | Spring | 18                          | 0,062     | <b>M43303B</b> |

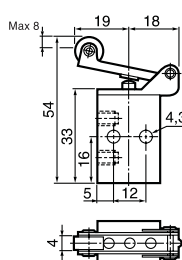
Normally closed only

## Mechanically operated valves

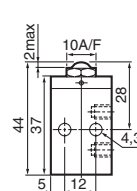
**Plunger operated (basic valve)**  
**M43303C**



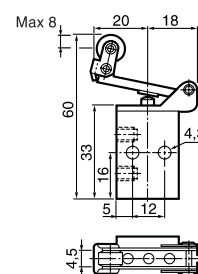
**Roller lever operated  
M43303R**



**Ball operated  
M43303B**



One way roller trip operated  
M43303T

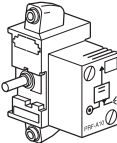


## Bleed sensors

For use with PRF-A12 relay

|                                                                                  | Symbol                                                                            | Connection       | Actuator    | Return | Operating forces<br>at 6 bar, N | Weight<br>kg | Order code      |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|-------------|--------|---------------------------------|--------------|-----------------|
|  |  | Ø4 mm<br>Push-in | Direct      | -      | 3 N                             | 0,030        | <b>PXF-A111</b> |
|                                                                                  |                                                                                   | M5               | Direct      | -      | 3 N                             | 0,030        | <b>PXF-A115</b> |
|  |  | Ø4 mm<br>Push-in | Ball roller | Spring | 3 N                             | 0,035        | <b>PXF-A121</b> |
|                                                                                  |                                                                                   | M5               | Ball roller | Spring | 3 N                             | 0,035        | <b>PXF-A125</b> |
|  |  | Ø4 mm<br>Push-in | Whisker     | Spring | 0,125 Nm                        | 0,035        | <b>PXF-A131</b> |
|                                                                                  |                                                                                   | M5               | Whisker     | Spring | 0,125 Nm                        | 0,035        | <b>PXF-A135</b> |

## Bleed sensor relay

|                                                                                   | Symbol                                                                              | Connection       | Function                                                                                                                         | Weight<br>kg | Order code     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|
|  |  | Ø4 mm<br>Push-in | Provides a supply to a bleed sensor and generates a pneumatic signal equal to its supply pressure when the bleed sensor operates | 0,070        | <b>PRF-A12</b> |

## Application

Bleed sensors make it possible to sense very low actuating forces or small movements and are very compact. They are easy to install and connect as they only require a single tube. However, the length of the interconnecting tube must remain short if quick response times are required.