"K4" adjustable pressure switches permit opening or closing of an electric circuit upon reaching predetermined pressure value. The preset pressure is found by rotating the external screw located at the centre of the instrument clockwise to increase and vice-versa to decrease the pressure set point value. Mechanical stops protect both the spring and the micro-switch, from over pressurization. The main characteristic of this series is that this miniature pressure switch can be totally dismantled.

**Technical features:**
- **Body:** 24 mm hexagonal in zinc-plated carbon steel
- **Assembly:** in every position
- **Working temperature:** from - 20°C to + 80°C
- **Switching frequency:** 200 cycles/min
- **Switching accuracy:** ± 5% of the pressure settled to 20°C
- **Operating point:** adjustable through an external screw
- **Fixed hysteresis value:**
  - membrane execution ~ 10% of the settled value
  - piston execution ~ 15% of the settled value
- **Weight:** 0,06 Kg
- **Mechanical life:** 10⁷ cycles at 70 bar (1000 psi) at 20°C

**Electric Features:**
- Maximum load: 2 Ampère at 48 Volt AC
  - 1 Ampère at 48 Volt DC
  (see dedicated page)
- Electric protection according to DIN 40050: IP54
  - with P1 rubber cup protection

**Warranty:** see dedicated page

**Spare parts:** see dedicated page

**Also available:**
- **K4X** with fluid connection port made in AISI 316 stainless steel
- **K4L** body in brass
- Seals in Viton, EPDM, PTFE

### HOW TO ORDER

<table>
<thead>
<tr>
<th>K4</th>
<th>Execution</th>
<th>P Max</th>
<th>Type of electric contact</th>
<th>Type of Electric Connection</th>
<th>Hydraulic Connection</th>
<th>Body Material</th>
<th>Seal Type</th>
<th>Preset value</th>
<th>Condition</th>
<th>Protection Cap</th>
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<td>Switching pressure range</td>
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<tr>
<td>Z</td>
<td>20&gt;200</td>
<td>Piston</td>
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<tr>
<td>Y</td>
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<tr>
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</tr>
</tbody>
</table>

*Indicate the value if you need* pressure switch already preset in factory

**D** means down pressure setting

**U** means up pressure setting

**Accessory on request essential to protect the instrument from dirt, moisture and for to have the IP54 protection**
“F3” adjustable pressure switches allow the commutation of a micro-switch with exchange contacts once a preset pressure value is reached. The preset pressure regulation is effected on the regulation knob inside the instrument and interceptable through a 2mm hexagonal key.

**Technical Features**

- **Body:** 27 mm hexagonal in zinc-plated carbon steel
- **Assembly:** in every position
- **Switching accuracy:** ± 4% of the pressure settled to 20°C
- **Fixed hysteresis value:**
  - membrane execution ~ 10% of the settled value
  - piston execution ~ 15% of the settled value
- **Weight:** 0,08 Kg
- **Working temperature:** from - 20°C to + 80°C
- **Operating point:** adjustable through an internal screw
- **Switching frequency:** 90 cycles/min
- **Mechanical life:** 10⁶ cycles at 70 bar (1000 psi) at 20°C
- **Electric features:**
  - Maximum load: 0.5 Ampère at 250 Volt AC
  - 0.15 Ampère at 110 Volt DC (see dedicated page)
  - Electric protection according to DIN40050:
    - IP65 for M2 and M3 execution
    - IP54 for P2 execution
  - Electric contact according to DIN 43650
  - Exchange contacts NO and NC
- **Warranty:** see dedicated page
- **Spare parts:** see dedicated page
- **Also available:**
  - F3X with fluid connection port made in AISI 316 stainless steel
  - Seals in Viton, EPDM, PTFE
  - Micro-switches with gold plated contact

### HOW TO ORDER

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching Pressure range</th>
<th>Execution</th>
<th>P Max</th>
<th>Hydraulic Connection</th>
<th>Body Material</th>
<th>Seal Type</th>
<th>Type of microswitch</th>
<th>Preset value</th>
<th>Condition</th>
<th>Type of Electric Connection</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0.2–2.5</td>
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<td>10</td>
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<tr>
<td>F33</td>
<td>5–50</td>
<td>Piston</td>
<td>300</td>
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<td></td>
<td>X A</td>
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<tr>
<td>F35</td>
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<td>BRASS</td>
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<td>L</td>
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<td></td>
<td>D fast-on 6.3 mm and rubber cup protection</td>
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<tr>
<td>F37</td>
<td>30–250</td>
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<td>E</td>
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<td>M2 16x16 connector</td>
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<tr>
<td>F39</td>
<td>100–400</td>
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<td>600</td>
<td></td>
<td>NBR</td>
<td></td>
<td>G</td>
<td></td>
<td></td>
<td>M3 30x30 connector</td>
</tr>
</tbody>
</table>

Abbreviations:
- X: Viton
- V: EPDM
- T: PTFE
- L: BRASS
- E: NBR
- G: Gold plated contacts
- D: means down pressure setting
- M: Up pressure setting
"F3S" adjustable pressure switches allow the commutation of a microswitch with exchange contacts once a preset pressure value is reached. The preset pressure regulation is effected on the regulation knob inside the instrument and interchangeable through a 2mm hexagonal key. The "F3S" execution is provided with a bigger diameter membrane that allows an excellent working operation at low pressure.

**Technical Features**

**Body:** 40x40mm square in anodized aluminium

**Assembly:** in every position

**Switching accuracy:** ± 3% of the pressure settled to 20°C

**Fixed hysteresis value:** ~ 7% of the settled value

**Weight:** 0.1 Kg;

**Working temperature:** from -20°C to + 80°C

**Operating point:** adjustable through an internal screw

**Switching frequency:** 90 cycles/min

**Mechanical life:** 10⁶ cycles at 70 bar (1000 psi) at 20°C

**Electric features:**
- Maximum load: 0.5 Ampère at 250 Volt AC
  0.15 Ampère at 110 Volt DC (see LED page)
- Electric protection according to DIN40050:
  IP65 for M2 and M3 execution
  IP54 for P2 execution
- Electric contact according to DIN 43650
- Exchange contacts NA and NC

**Warranty:** see dedicated page

**Spare parts:** see dedicated page

**Also available:**
- **F3SX** with fluid connection port made in AISI 316L stainless steel
- **Seals in Viton, EPDM, PTFE**
- **Micro-switches with gold plated contact**

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching Pressure range</th>
<th>Execution</th>
<th>P Max</th>
<th>Hydraulic Connection</th>
<th>Body Material</th>
<th>Seal Type</th>
<th>Type of microswitch</th>
<th>Preset value</th>
<th>Condition</th>
<th>Type of Electric Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>F3S1</td>
<td>0.05-0.5</td>
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<td></td>
<td>X AISI316L</td>
<td>VITON</td>
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<td></td>
<td></td>
<td>P2 fast-6.3 mm and rubber cup protection</td>
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<tr>
<td>F3S2</td>
<td>0.1-1</td>
<td>Membrane</td>
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<td>1/4” BSP Female</td>
<td>P PVC</td>
<td>T PTFE</td>
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<td></td>
<td>M2 16x16 connector</td>
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<tr>
<td>F3S3</td>
<td>0.5-5</td>
<td>Membrane</td>
<td>15</td>
<td></td>
<td>E EPDM</td>
<td>G Gold plated contacts</td>
<td>If omitted means standard contacts</td>
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<td></td>
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</tr>
<tr>
<td>F3S4</td>
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<td>Membrane</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td>D means down pressure setting</td>
<td></td>
<td></td>
<td>M3 30x30 connector</td>
</tr>
</tbody>
</table>
Adjustable electro-mechanical pressure switch, with exchange contacts, suitable for application where it is not necessary to modify frequently the intervention point. The regulation screw, interceptable with a 2mm hexagonal key in the executions KR6 and K6/M3, is situated inside the instrument, protected by an upper cap or a connector against accidental manussions. Concerning the execution K6/M12, the intervention point can be pre-settled in factory, following the request of the Customer, or in alternative the Customer can adjust the value removing the four screws on the top of the instrument.

**Technical features:**

- **Body:** 30x30 mm square in nickel-plated brass
- **Assembly:** in every position
- **Working temperature:** from -20°C to +80°C
- **Switching frequency:** 90 cycles/min
- **Switching accuracy:** ± 4% of the pressure settled to 20°C
- **Operating point:** adjustable through an internal screw protected by a cap
- **Fixed hysteresis value:**
  - membrane execution ~ 10% of the settled value
  - piston execution ~ 14% of the settled value
- **Weight:** 0.00 0.40 lbm
- **Electric connection type:** 30x30 connector or M12x1 connector
- **Mechanical life:** 10⁶ cycles at 70 bar 20°C
- **Electric Features:**
  - Maximum load: 0.5 Ampère at 250 Volt AC
  - 0.15 Ampère at 110 Volt DC (see dedicated page)
  - Exchange contacts NA and NC
  - Electric connection according to: DIN 43650 for the M3 execution
  - IEC60947-5-2 for the M12 execution
  - Electric protection according to DIN 40050: IP65
- **Warranty:** see dedicated page
- **Spare parts:** see dedicated page
- **Also available:**
  - Seals in Viton, EPDM, PTFE
  - Microswitches with gold plated contacts (instead of silver-plated as in the standard execution)

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**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching Pressure Range</th>
<th>Execution</th>
<th>P Max</th>
<th>Hydraulic Connection</th>
<th>Seal Type</th>
<th>Microswitches Type</th>
<th>Preset Value</th>
<th>Conditions</th>
<th>Electric connection</th>
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<td>Bar</td>
<td>VITON</td>
<td>U</td>
<td>30x30 connector</td>
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<tr>
<td>K63</td>
<td>KR63</td>
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<td>200</td>
<td>Piston</td>
<td>Bar</td>
<td>EPDM</td>
<td>E</td>
<td>3</td>
<td>M12</td>
</tr>
<tr>
<td>K64</td>
<td>KR64</td>
<td>Bar</td>
<td>300</td>
<td>Piston</td>
<td>Bar</td>
<td>EPDM</td>
<td>G</td>
<td>3</td>
<td>M12</td>
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<tr>
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<td>Bar</td>
<td>EPDM</td>
<td>D</td>
<td>3</td>
<td>M12</td>
</tr>
</tbody>
</table>

1/2" BSPT male

V gold plated contacts

T if omitted means silver plated contacts

E if omitted means NBR

Indicate the value if needed

D means down pressure setting

U means up pressure setting
ADJUSTABLE PRESSURE SWITCH - K7 SERIES

"K7" adjustable pressure switches allow the commutation of a micro-switch with exchange contact. The preset pressure is adjustable through a regulated screw put inside the instrument and protected by an external closure plug.

Of compact and economical construction, the "K7" pressure switch is suitable for systems not requiring a constant alteration of the operating point, conversely, the possibility to block the protection plug can avoid unwanted or unintentional changes of the same value.

Mechanical stops protect both the spring and the microswitch from over pressurization.

Technical features:

Body: 36 mm hexagonal in zinc-plated carbon steel
Assembly: in every position
Protection cap: in nylon charged with fiber glass
Operating point: adjustable through an internal screw protected by a security cap
Working temperature: from -20°C to +80°C
Switching frequency: 120 cycles/min
Switching accuracy: ±3% of the pressure settled to 20°C
Fixed hysteresis value: ≈15% of the settled value
Weight: 0.2 Kg
Mechanical life: 10⁶ cycles at 70 bar (1000 psi) at 20°C

Electric Features:
- Maximum load: 5 Ampère at 250 Volt AC
  0.25 Ampère a 125 Volt DC (see dedicated page)
- Exchange contacts NO and NC
- Electric connection according to DIN 43650
- Electric protection according to DIN 40050: IP65

Warranty: see dedicated page
Spare parts: see dedicated page

Also available:
- K7X with fluid connection port in AISI 316 stainless steel
- Seals in Viton, EPDM, PTFE
- Micro switches with gold plated contacts (instead of silver-plated as in the standard execution)
- Adaptor type K7RID for flange fixing (see adaptors page)
- Electric connector with light signal of insertion

HOW TO ORDER

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching pressure range</th>
<th>Execution</th>
<th>P max</th>
<th>Hydraulic Connection</th>
<th>Body Material</th>
<th>Seal Type</th>
<th>Microswitches Type</th>
<th>Preset value</th>
<th>Condition</th>
<th>Electric connection</th>
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</thead>
<tbody>
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<td>Only</td>
<td>X AISI316L</td>
<td>V VITON</td>
<td>T PTFE</td>
<td>Bar</td>
<td></td>
<td>Bar</td>
</tr>
<tr>
<td>K73</td>
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<td>300</td>
<td></td>
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<td>V VITON</td>
<td>T PTFE</td>
<td>Bar</td>
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<td>Bar</td>
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<tr>
<td>K75</td>
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<td>350</td>
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<td>G EPDM</td>
<td>U</td>
<td>Bar</td>
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<td>Bar</td>
</tr>
<tr>
<td>K77</td>
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<td>Piston</td>
<td>400</td>
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<td>G EPDM</td>
<td>U</td>
<td>Bar</td>
<td></td>
<td>Bar</td>
</tr>
</tbody>
</table>

*If omitted means tropicalized carbon steel
*1/4” BSP male
*If omitted means NBR
*If omitted means standard contacts
*Indicate the value if you want the pressure switch already preset in factory
*U means up pressure setting
*M4 Electric connector with light signal of insertion
*If omitted means standard connector
"K9" adjustable pressure switches activate a microswitch once a preset pressure value is reached. The preset pressure is set by rotating the external nut clockwise to increase and vice-versa to decrease the value. The nut is supplied with a locking device to stop the instrument once the pressure value is reached. Mechanical stops protect both the spring and the microswitch from over pressurization.

**Technical features**

- **Body**: 32 mm hexagonal in zinc-plated carbon steel
- **Metal ring**: Ø 40 mm in anodised aluminium
- **Assembly**: in every position
- **Working temperature**: from -20°C to +80°C
- **Switching frequency**: 120 cycles/min
- **Operating point**: adjustable through an external metal ring
- **Switching accuracy**: ± 2% of the pressure settled to 20°C
- **Fixed hysteresis value**: ~15% of the settled value
- **Weight**: 0.4 Kg
- **Mechanical life**: 10⁶ cycles at 70 bar (1000 psi) at 20°C

**Electric Features**:
- Maximum load: 5 Ampère at 250 Volt AC
- 0.25 Ampère at 125 Volt DC (see dedicated page)
- Exchange contacts NO and NC
- Electric connection according to DIN 43650
- Electric protection according to DIN 40050: IP65

**Warranty**: see dedicated page

**Spare parts**: see dedicated page

**Also available**:
- Seals in Viton
- Micro switches with gold plated contacts (instead of silver-plated as in the standard execution)
- Adaptor type K7RID for flange fixing (see adaptors page)

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**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching pressure range</th>
<th>Execution</th>
<th>P Max</th>
<th>Seal Type</th>
<th>Hydraulic Connection</th>
<th>Microswitches Type</th>
<th>Preset value</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
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<td>K93</td>
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<td>Piston</td>
<td>200</td>
<td>Only VITON E EPDM</td>
<td>If omitted means NBR</td>
<td>Gold plated contacts</td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td>D</td>
</tr>
<tr>
<td>K94</td>
<td>5 &gt; 100</td>
<td>Piston</td>
<td>300</td>
<td>Only VITON E EPDM</td>
<td>If omitted means NBR</td>
<td>Gold plated contacts</td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td>D</td>
</tr>
<tr>
<td>K95</td>
<td>20 &gt; 200</td>
<td>Piston</td>
<td>400</td>
<td>Only VITON E EPDM</td>
<td>If omitted means NBR</td>
<td>Gold plated contacts</td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td>D</td>
</tr>
<tr>
<td>K97</td>
<td>30 &gt; 300</td>
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<td>600</td>
<td>Only VITON E EPDM</td>
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<td>Gold plated contacts</td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td>D</td>
</tr>
<tr>
<td>K99</td>
<td>40 &gt; 400</td>
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<td>600</td>
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<td>If omitted means NBR</td>
<td>Gold plated contacts</td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td>D</td>
</tr>
</tbody>
</table>

D means down pressure setting
U means up pressure setting
"F5" pressure switches activate a microswitch once a preset pressure value is reached. The preset pressure, in the standard execution, is set by rotating the internal screw located at the center of the instrument. The internal screw is accessible by removal of the protection cap, screwing clockwise to increase and vice-versa to decrease the value. In the "F5-P" execution, it is necessary to rotate the regulation knob on the top of the instrument. Mechanical stops protect both the spring and microswitch from overpressurization.

With a compact and economical construction, the F5 is suitable for systems not requiring a constant alteration of the operating set. Conversely, the possibility to lock the protection plug can avoid unwanted or unintentional changes of the same value.

Technical features:
- **Body**: 30x30 mm square in anodised aluminium
- **Assembly**: in every position
- **Working temperature**: from -20°C to +80°C
- **Switching frequency**: 120 cycles/min
- **Operating point**: adjustable through an internal screw protected by a safety cap
- **Switching accuracy**: ± 3% of the end of scale at 20°C
- **Fixed hysteresis value**: ~ 15% of the end of scale at 20°C
- **Weight**: 0.15 Kg
- **Mechanical life**: 10⁶ cycles at 70 bar at 20°C

**Electric Features**:
- Maximum load: 5 Ampere at 250 Volt AC
- 0.1 Ampere at 250 volt DC (see dedicated page)
- Exchange contacts NO and NC
- Electric connection according to DIN 43650
- Electric protection according to DIN 40050: IP65

**Warranty**: see dedicated page
**Spare parts**: see dedicated page

**Also available**:
- Seals in Viton
- Micro switches with gold plated contacts (instead of silver-plated as in the standard execution)
- Connector M12 according to IEC50947-5-2
- Electric connector M4 with light signal of insertion

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching Pressure Range</th>
<th>Execution</th>
<th>P max</th>
<th>Hydraulic Connection</th>
<th>Seal Type</th>
<th>Type of Microswitches</th>
<th>Preset Value</th>
<th>Condition</th>
<th>Type of Execution</th>
<th>Electric Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>F53</td>
<td>5 &gt; 50</td>
<td>Piston</td>
<td>300</td>
<td>Bar</td>
<td>Unice</td>
<td>V VITON</td>
<td>/</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>F55</td>
<td>15 &gt; 150</td>
<td>Piston</td>
<td>350</td>
<td>Bar</td>
<td>if omitted means NBR</td>
<td>G Gold plated contacts</td>
<td>/</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>F57</td>
<td>30 &gt; 300</td>
<td>Piston</td>
<td>400</td>
<td>Bar</td>
<td>/</td>
<td>U means rising pressure setting</td>
<td>/</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
</tbody>
</table>
"K5" adjustable pressure switches activate a microswitch once preset value is reached. The pressure is set by rotating a graduated knob or, for the economical version, by a setscrew located on top of the unit. Both systems are supplied with a device permits locking the desired set pressure. Mechanical stops protect both the spring and the microswitch from over pressurization.

**Technical Features:**
- **Body:** square 40x40mm in anodized aluminium
- **Assembly:** in every position with ¼"BSPF threaded port or Cetop flanged without needs adaptors
- **Working temperature:** from -20°C to +80°C
- **Switching frequency:** 120 cycles/min
- **Switching accuracy:** ± 2% of the pressure settled to 20°C
- **Fixed hysteresis value:** ~ 15% of the preset value
- **Weight:** 0,35 Kg
- **Mechanical life:** 10⁶ cycles at 70 bar at 20°C

**Electric Features:**
- Maximum load: 5 Ampère at 250 Volt AC
  0.25 Ampère at 125 Volt DC (see dedicated page)
- Exchange contact NO and NC
- Electric connection according to DIN 43650
- Electric protection according to DIN 40050: IP65

**Warranty:** see dedicated page

**Spare parts:** see dedicated page

**Also available:**
- Seal in Viton
- Microswitch with gold plated contact
- Cetop modular manifold type "B6" and "B10" for attachment to electrovalves Cetop 3 and 5 (see adapters page)
- Electric connector with light signal of insertion

---

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching pressure range</th>
<th>Execution</th>
<th>P Max</th>
<th>Hydraulic connection</th>
<th>Seal Type</th>
<th>Type of Microswitch</th>
<th>Preset value</th>
<th>Condition</th>
<th>Type of Execution</th>
<th>Type of electric connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K53</td>
<td>2 &gt; 40</td>
<td>Piston</td>
<td>200</td>
<td>Only</td>
<td>VITON</td>
<td>M4</td>
<td></td>
<td></td>
<td>Bar</td>
<td></td>
</tr>
<tr>
<td>K54</td>
<td>5 &gt; 100</td>
<td>Piston</td>
<td>300</td>
<td>¼&quot; BSP female or connection to a Cetop panel without any adaptors</td>
<td>TFE</td>
<td>G</td>
<td>D</td>
<td>P</td>
<td>M4 (with light signal of insertion)</td>
<td></td>
</tr>
<tr>
<td>K55</td>
<td>20 &gt; 200</td>
<td>Piston</td>
<td>400</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bar</td>
<td></td>
</tr>
<tr>
<td>K57</td>
<td>30 &gt; 300</td>
<td>Piston</td>
<td>500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bar</td>
<td></td>
</tr>
<tr>
<td>K59</td>
<td>40 &gt; 400</td>
<td>Piston</td>
<td>600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bar</td>
<td></td>
</tr>
</tbody>
</table>
ADAPTORS TYPE B6, B10, K7RID

Technical features B6 and B10:
Material: anodised aluminium
Maximum working pressure: 350 bar
Standard equipment:
- screws to fix the pressure switch
- dowel to close the pressure ports not in use
- O-ring for seal
Dimension:
- B6 70 x 45 x 44 mm
- B10 90 x 70 x 50 mm
Weight:
- B6 0.37 Kg
- B10 0.8 Kg

Technical features K7RID:
Material: zinc-plated carbon steel
Maximum working pressure: 350 bar
Standard equipment:
- socket head screws M4x16
- O-ring for seal
Weight: 0.07 Kg

B6

B10

Manifolds for the modular connection to the electrovalves CETOP 3 or 5 for the K5 series

K7RID

Adaptor for K7 and K9
“X5” electronic pressure switches permit the actuation of an electronic micro-switch upon reaching a value of pressure predetermined and to the regulation of the hysteresis value. The operating point of minimum and maximum pressure is found working on two trimmer put on the top of the instrument, protected by a plug - rotating it in hourly sense the point of intervention is increased and vice versa it decreases. The instrument, totally solid state, is completely deprived of electromechanical or dynamic parts.

**Technical features:**

- **Body:** 30x30 mm square in anodised aluminium
- **Assembly:** in every position
- **Maximum dimension**
  
  \( L \text{ (width max, H =height max)}: \) 70 mm x H 100 mm
- **Fluid connection port:** in AISI 316L stainless steel with ceramic sensor and incorporate seal in NBR
- **Working temperature:** from -20°C to +70°C
- **Switching frequency:** 120 cycles/min
- **Operating point:** adjustable through an internal potentiometer protected by a safety cap
- **Switching accuracy:** ± 1,5% of the pressure settled to 20°C
- **Hysteresis value:** adjustable gap between 2% and 45% of the preset value
- **Weight:** 0,2 Kg
- **Mechanical life:** 5x10⁶ cycles at 20°C

**Electric Features:**

- Maximum load: 1 Ampere at 24 Volts DC (see dedicated page)
- Exchange contacts NO and NC
- Electric connection according to DIN 43650
- Electric protection according to DIN 40050: IP65
- Standard power supply: 24 VDC (on request 12 VDC)
- Medium consumption: 20 mA

**Warranty:** see dedicated page

**Spare parts:** see dedicated page

**Also available:**

- M4 execution with electric connectors with light signal of insertion

---

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching pressure range</th>
<th>P max</th>
<th>Hydraulic Connection</th>
<th>Max. Pressure Preset value</th>
<th>Min. Pressure Preset value</th>
<th>Type of execution</th>
<th>Type of Electric Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>X50</td>
<td>0.15 &gt; 2 Bar</td>
<td>7</td>
<td>Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X51</td>
<td>2 &gt; 15 Bar</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X53</td>
<td>5 &gt; 45 Bar</td>
<td>200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X55</td>
<td>10 &gt; 160 Bar</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
<td>12V special execution</td>
<td></td>
</tr>
<tr>
<td>X57</td>
<td>30 &gt; 360 Bar</td>
<td>500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>M4 Electric connector with light signal of insertion</td>
</tr>
<tr>
<td>X59</td>
<td>70 &gt; 500 Bar</td>
<td>600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>If omitted means standard connector</td>
</tr>
</tbody>
</table>

\( '\frac{1}{4}''\) BSP female

Indicate the value if you want the pressure switch already preset in factory

Indicate the value if you want the pressure switch already preset in factory

If omitted means standard execution
“KL5” electronic pressure switches permit the actuation of an electronic micro-switch upon reaching a predetermined pressure setting and to the continuous regulation of the hysteresis value. The right hand lever mounted on the instrument that is rotated forward to increase and reverse to decrease controls the maximum set point. The minimum set point of pressure hysteresis is adjustable by rotating the left hand lever of the instrument. The instrument completely solid state, it is totally without electromechanical or dynamic parts.

Technical features:
Body: in anodised aluminium
Fluid connection port: in AISI 316L stainless steel
Assembly: in every position
Maximum dimension: \( L = \text{width max}, H = \text{height max} \): L 76mm x H 81mm
Working temperature: from -20°C to +80°C
Switching frequency: 200 cycles/min
Switching accuracy: ± 1% of the pressure settled to 20°C
Hysteresis value: adjustable gap between the 2% and the 95% of the settled value
Weight: 0,3 Kg
Mechanical life: 10x10⁶ cycles at 20°C

Electric Features:
- Standard power supply: 24 V DC +/-10% (on request 12 V DC)
- Electric connection according to DIN 43650
- Electric protection according to DIN 40050: IP65
- Maximum contact load: 2 Ampère at 24 Volts DC
- Medium consumption: 20 mA
- Involatile memory: EEPROM

Warranty: see dedicated page
Spare parts: see dedicated page
On request: execution for working pressure until 700 bar
with regulation range -1>0 bar

HOW TO ORDER

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching pressure range</th>
<th>P max</th>
<th>Hydraulic Connection</th>
<th>P max Preset value</th>
<th>P min Preset value</th>
<th>Type of execution</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL50</td>
<td>0 &gt; 4 Bar</td>
<td>15 Bar</td>
<td>Unica</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KL52</td>
<td>0 &gt; 20 Bar</td>
<td>50 Bar</td>
<td>½&quot; BSP female or connection to a Celop panel without any adaptors</td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td></td>
<td>12V special execution M12 with M12x1 electric connection</td>
</tr>
<tr>
<td>KL59</td>
<td>0 &gt; 400 Bar</td>
<td>600 Bar</td>
<td></td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td></td>
<td>If omitted means standard execution</td>
</tr>
</tbody>
</table>

!!3Gi/D EEEx o T6
**Electronic Pressure Switch KLV5 Series**

"KLV5" electronic pressure switches permit the regulation of n.2 operating points with adjustable hysteresis. Simple and intuitive in programming, the KLV5 is equipped by rotating display and hydraulic connection that permit to set easily the connector M12x1 in the most suitable position. It permit also a perfectly visibility of the display in every application. It is possible to activate a password protection to provide protection from unauthorised program modifications.

**Technical features:**

- **Body:** in stainless steel
- **Fluid connection port:** in stainless steel with ceramic sensor and incorporate NBR seal
- **Assembly:** in every position
- **Maximum dimension** (L = width max, H = height max): L 60 mm x H 93 mm
- **Display:** n° 4 digits of 7.6 mm
- **Working temperature:** from -20°C to +80°C
- **Switching frequency:** 200 cycles/min
- **Switching accuracy:** 0.5% of the final value
- **Range of the adjustment:** from 1% to 100% of the end of scale value
- **Hysteresis value:** adjustable gap between 1% and 100% of the settled value
- **Weight:** 0.35 Kg
- **Mechanical life:** 10x10⁶ cycles at 20°C

**Electric Features:**
- Power supply: 12 > 30 VDC
- Electric connection M12x1 (4pin)
- Electric protection according to CEI EN 60529:1P65
- Maximum contact load: 0.5 Ampère at 24 Volts DC
- Medium consumption: <50 mA, without load current
- Interference emission and interference immunity according to EN 61.326
- protected against overvoltage and pole reversal

**Warranty:** see dedicated page

**Spare parts:** see dedicated page

**Operative instruction:** see dedicated page

**Note:** M12 connector not include

---

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching pressure range</th>
<th>P max</th>
<th>Hydraulic Connection</th>
<th>Max P1 Preset value</th>
<th>Min.P1 preset value</th>
<th>Max P2 Preset value</th>
<th>Min P2 preset value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bar</td>
<td>Bar</td>
<td>Only</td>
<td>Bar</td>
<td>Bar</td>
<td>Bar</td>
<td>Bar</td>
</tr>
<tr>
<td>KLV52</td>
<td>0 &gt; 20</td>
<td>40</td>
<td></td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td></td>
</tr>
<tr>
<td>KLV54</td>
<td>0 &gt; 160</td>
<td>320</td>
<td>¼&quot; BSP male with seal according to DIN 3852-E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KLV59</td>
<td>0 &gt; 400</td>
<td>800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Ce II 3 G/D Ex e T6
Technical Features:

**Body:** square 30x30 in anodized aluminium

**Spare parts:** see dedicated page

**Contact fluid parts:** in nickel plated brass or on demand in AISI316L

**Mounting position:** in every position

**Working temperature:** from -20°C to +70°C

**Switching accuracy:** < ± 2% F.S ± 1 digit (± 20°C)

**Hysteresis value:** adjustable between 2% and 45% of setting pressure or automatically settled at 3% of the end scale

**Zero thermal drift:** < 3% of end scale from 0 °C to +70 °C

**Weight:** 0.3 Kg

**Mechanical life:** 2x10⁶ cycles at 20°C

**Electric features:**
- Standard power supply: 12-24 VDC
- Electric connection in accordance with DIN 43650 for M3 connector
  - in accordance with IEC 60947-5-2 for M12 connection
- Electric connection in accordance to: CEI EN 60529: 1P 65
- Stacking temperature : from -25 °C to +90 °C
- Input impedance: 100 Ohm

**Warranty:** see dedicated page

**Note:** connector M12 female not included

---

**IMPORTANT:** for C2 execution connect the transducer before connect power supply of FL5 instrument

---

### HOW TO ORDER

#### FL5

<table>
<thead>
<tr>
<th>Type</th>
<th>Regulation Range</th>
<th>P max</th>
<th>Hydraulic connection</th>
<th>OUT1</th>
<th>OUT2</th>
<th>Type of connection</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bar</td>
<td>Bar</td>
<td>Standard</td>
<td>Preset Pmax</td>
<td>Preset Pmin</td>
<td>Preset Pmax</td>
<td>Preset Pmin</td>
</tr>
<tr>
<td>FL50.1</td>
<td>0 &gt; 2</td>
<td>7,5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FL51</td>
<td>0 &gt; 5</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FL52</td>
<td>0 &gt; 10</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FL54</td>
<td>0 &gt; 100</td>
<td>50</td>
<td>¼”BSP Female (M3 – M12)</td>
<td>Indicate the value if needed</td>
<td>Indicate the value if needed</td>
<td>Indicate the value if needed</td>
<td>Indicate the value if needed</td>
</tr>
<tr>
<td>FL55</td>
<td>0 &gt; 160</td>
<td>200</td>
<td>¼”BSP Male (C2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FL59</td>
<td>0 &gt; 400</td>
<td>600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Display in front of instrument:**
- FL50.1 With 2 mt. of wire
- FL51 M3 30x30 connector
- FL52 M12 12X1 connector

**Display in top of instrument:**
"KZ2" piston type differential pressure switches allow a micro-switch actuation upon reaching of a value between two pressures. The switch point is reached by sliding the DIN-housing forward to increase the differential ration and backward to decrease the different pressure value.

It can work with different types of fluids and gas without presence of dirty or impurities. We recommend the use of filters before the instrument. The hydraulic connections provide n.2 input in-line for the high and low pressure. Mechanical stops protect the instrument from over pressurization and inversions of the pressures values.

**Technical features:**

- **Body:** 30x30mm square in anodised aluminium
- **Assembly:** in every position
- **Maximum dimension:** (L = width max, H = height max): L 65mm x H 90mm
- **Hydraulic connections:** ½" BSP female
- **Working temperature:** from - 20°C to + 80°C
- **Switching frequency:** 60 cycles/min
- **Switching accuracy:** ± 5% of the pressure settled to 20 °C
- **Fixed hysteresis value:** ~ 20% of the maximum working pressure
- **Weight:** 0,25 Kg
- **Mechanical life:** $10^6$ cycles at 20°C

**Electric Features:**

- Electric connection: according to DIN 43650
- Electric protection: according to DIN 40050: IP65
- Exchange electric connections
- Maximum load on the electric contacts:
  - alternate current until 48 Volt – 1 Ampère
  - direct current until 48 Volt – 0.5 Ampère

**Warranty:** see dedicated page

**Spare parts:** see dedicated page

**Also available:**

- KZ2X with body in AISI316L stainless steel
- Seals in Viton, PTFE

---

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Working range</th>
<th>Differential adjustment range P2 (max) – P1 (min)</th>
<th>P max</th>
<th>Body Material</th>
<th>Hydraulic connection</th>
<th>Differential setting</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZ21</td>
<td>1.5 &gt; 5</td>
<td>1 – 2</td>
<td>200</td>
<td>Only</td>
<td>Bar</td>
<td>Bar</td>
<td>D</td>
</tr>
<tr>
<td>KZ23</td>
<td>3 &gt; 10</td>
<td>2 – 4</td>
<td>200</td>
<td>X AISI316L</td>
<td>½&quot; BSP female</td>
<td>Indicate the value if you want the pressure switch already preset in factory</td>
<td></td>
</tr>
<tr>
<td>KZ25</td>
<td>10 &gt; 30</td>
<td>3 – 7</td>
<td>200</td>
<td>L BRASS</td>
<td>If omitted means anodised aluminium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KZ27</td>
<td>20 &gt; 50</td>
<td>4 – 8</td>
<td>200</td>
<td></td>
<td></td>
<td>U means up pressure setting</td>
<td></td>
</tr>
</tbody>
</table>
"W3" adjustable vacuum switches allow a micro-switch commutation once a preset vacuum value is reached. The operating point is found by adjusting the external screw located at the center of the instrument, rotating the screw clockwise to decrease and vice-versa to increase the value. Mechanical stops protect both the spring and the micro-switch from over pressurization.

**Technical Features:**
- **Body:** 40x40mm square in anodized aluminium
- **Assembly:** in every position
- **Maximum dimension (L = width max, H = height max):**
  - P2 execution: L 55mm x H 72 mm
  - M2 execution: L 65mm x H 75 mm
  - M3 execution: L 55mm x H 85mm
- **Hydraulic connection:** ¼" BSP female
- **Working temperatures:** from −20°C to +80°C
- **Switching frequency:** 90 cycles/min
- **Switching accuracy:** ± 7% of the pressure settled to 20°C
- **Fixed hysteresis value:** ~ 15% of the settled value
- **Weight:** 0.1 Kg
- **Mechanical life:** 10⁶ cycles at 20°C
- **Electric Features:**
  - Electric connection according to DIN 43650
  - Electric protection according to DIN 40050: IP54
  - Exchange electrical contact
  - Maximum load on the electric contacts:
    - alternate current to 125 Volt – 3 Ampère
    - direct current to 125 Volt – 0.25 Ampère
- **Warranty:** see dedicated page
- **Spare parts:** see dedicated page
- **Also Available:**
  - W3X with body in AISI 316 stainless steel
  - Seals in Viton, PTFE

### HOW TO ORDER

<table>
<thead>
<tr>
<th>Type</th>
<th>Switching pressure range</th>
<th>P max</th>
<th>Hydraulic connection</th>
<th>Body material</th>
<th>Seal type</th>
<th>Preset</th>
<th>Conditions</th>
<th>Type of Electric Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bar</td>
<td>Bar</td>
<td>Only</td>
<td></td>
<td></td>
<td></td>
<td>Bar</td>
<td></td>
</tr>
<tr>
<td>W31</td>
<td>- 0.05 &gt; - 0.5</td>
<td>10</td>
<td>¼&quot; BSP female</td>
<td>AISI 316L</td>
<td>VITON</td>
<td>D</td>
<td>P2 Fast-on connection</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>if omitted means anodized aluminium</td>
<td></td>
<td></td>
<td>M2 connector 16x16</td>
<td></td>
</tr>
<tr>
<td>W32</td>
<td>- 0.15 &gt; - 0.8</td>
<td>10</td>
<td></td>
<td>NBR</td>
<td>PTFE</td>
<td>U</td>
<td>M3 connector 30x30</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>if omitted means NBR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
"WF4" adjustable vacuum switches allow a micro-switch commutation once a preset pressure value is reached. Working on the central screw in the P2 execution or intercepting the regulator dowel put inside the instrument using a 2mm hexagonal screw, rotating the operating point in hourly sense to increase and vice-versa to decrease. Mechanical stops protect both the spring and the micro-switch from over pressurization.

**Technical features:**
- **Body:** 24 mm hexagonal in zinc-plated carbon steel
- **Assembly:** in every position
- **Working temperature:** from -25°C to +85°C
- **Switching frequency:** 90 cycles/min
- **Switching accuracy:** ±4% of the pressure settled to 20°C
- **Operating point:** adjustable through an internal screw
- **Fixed hysteresis value:** ~15% of the settled value
- **Weight:** 0.05 Kg
- **Mechanical life:** $10^6$ cycles at 70 bar (1000 psi) at 20°C

**Electric Features:**
- Maximum load: 0.5 Ampère at 250 Volt AC (see dedicated page)
- Exchange contacts NO and NC
- Electric connection according to DIN 43650 for M2 and M3
- Electric protection according to DIN 40050:
  - IP65 for M2/M3 execution
  - IP54 for P2 and P3 execution

**Warranty:** see dedicated page

**Spare parts:** see dedicated page

**Also available:**
- F4X with fluid connection port made in AISI 316 stainless steel
- Seals in Viton, PTFE

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**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Regulation range</th>
<th>P Max</th>
<th>Body material</th>
<th>Hydraulic Connection</th>
<th>Type of Seal</th>
<th>Type of Microswitch</th>
<th>Preset Value</th>
<th>Condition</th>
<th>Type of Electric Connection</th>
<th>Protection Cup</th>
</tr>
</thead>
<tbody>
<tr>
<td>WF4</td>
<td>-0.15 to 0.8 Bar</td>
<td>10 Bar</td>
<td>AISI316L T PTFE</td>
<td>¼&quot; BSP</td>
<td>VITON</td>
<td>G</td>
<td>1</td>
<td>D</td>
<td>P2 Connection with screw</td>
<td>P1 Rubber cup protection only on request necessary to protect the instrument from dirt and moisture (only for P2 and P3 execution)</td>
</tr>
</tbody>
</table>
### Electric Features and Spare Parts

<table>
<thead>
<tr>
<th>SERIES</th>
<th>ELECTRIC CONNECTION</th>
<th>ELECTRIC PROTECTION</th>
<th>COMMUTATION TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legend</td>
<td>Connector referred to the according to DIN 43650</td>
<td>According to CEI EN 60529</td>
<td>Micro-switch with exchange electric contact NO and NC</td>
</tr>
<tr>
<td>K4</td>
<td>Fast-on da 6,3mm</td>
<td>IP 54 if installed with protection cap</td>
<td>Simple mechanical contact NO o NC Max. AC 48V – 2A Max. DC 48V – 1A</td>
</tr>
<tr>
<td></td>
<td>Screw ends.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F4</td>
<td>Screw ends</td>
<td>IP 54 if installed with protection cap</td>
<td>Micro-switch MN-S3</td>
</tr>
<tr>
<td></td>
<td>Connector 16x16</td>
<td>IP 65</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Connector 30x30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F3–F3S</td>
<td>Fast-on of 6,3mm</td>
<td>IP 54 if installed with protection cap</td>
<td>Micro-switch MN-S3</td>
</tr>
<tr>
<td></td>
<td>Connector 30x30</td>
<td>IP 65</td>
<td></td>
</tr>
<tr>
<td>KR6</td>
<td>Connector 30x30</td>
<td>IP 65</td>
<td>Micro-switch MN-S3</td>
</tr>
<tr>
<td>K7</td>
<td>Connector 30x30</td>
<td>IP 65</td>
<td>Micro-switch MB-A3</td>
</tr>
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<td>K9</td>
<td>Connector 30x30</td>
<td>IP 65</td>
<td>Micro-switch MB-A3</td>
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<tr>
<td>F5</td>
<td>Connector 30x30</td>
<td>IP 65</td>
<td>Micro-switch MB-A3</td>
</tr>
<tr>
<td>K5</td>
<td>Connector 30x30</td>
<td>IP 65</td>
<td>Micro-switch MB-A3</td>
</tr>
</tbody>
</table>

#### Electric connection of all series without pressure:
- Pin n°1 – comune
- Pin n°2 – NC
- Pin n°3 – NO

*Note* The micro-switches are warranted by the constructor for 1,000,000 of life cycles without electric load on contacts. When electric load increase the number of life cycles decrease.

<table>
<thead>
<tr>
<th>MICRO-SWITCH ELECTRIC FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Volt</td>
</tr>
<tr>
<td>DC</td>
</tr>
<tr>
<td>30</td>
</tr>
<tr>
<td>50</td>
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<tr>
<td>AC</td>
</tr>
<tr>
<td>125</td>
</tr>
<tr>
<td>250</td>
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