### Electrical Data
- Nominal resistance: 1 kOhm
- Resistance tolerance: ±20 %
- Independent linearity: ±1 % of meas. range
- Electrical travel: 10 mm
- Repeatability: 0.05 mm
- Temperature coefficient of the voltage divider: 50 ppm/°C
- Recommended wiper current: max. 1 µA
- Max. wiper current in case of malfunction: 10 mA
- Power rating P: max. 0.5 W/40°C
- Min. life (electrical): 10 Mio. cycles

### Mechanical Data
- Mechanical travel: 10 mm
- Adjusting force of the push rod: max. 3 N
- Adjusting force of the push rod with return spring: max. 10 N
- Min. life (mechanical): 5 Mio. cycles
- Operating temperature: -25 °C to +75 °C
- Storage temperature: -25 °C to +105 °C
- Protection class: IP65

### Standards
- Insulating resistance (500 VDC, 1bar, 2s): 10 GOhm
- Dielectric strength (VAC, 50Hz, 1min, 1bar): 700 V
- Vibration (Am = 0.75mm, f = 30 ... 2000 Hz): 10 g
- Shock (half sine pulse, 7 ms): 50 g

---

#### KL100 (KL10/KLR10)

### Applications
- Gas pedal

### Features
- Compact dimensions
- Design flexibility
- 5 Mio. cycles
- Excellent linearity up to ±0.5%
- Very good resolution, better 0.05mm

### Options
- Linearity ±0.5 %
- Nominal resistances between 1KOhm and 20KOhm
- Pass trough push rod
- Longer push rod
- Connection by wires
- Longer cable
- Tandem-ganged
- Without bushing
- With bushing M6x0.75 or M10x0.75
- With or without return spring

---

Subject to change without notice
State: 11-Nov-2005
**Electrical Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal resistance</td>
<td>5 kOhm</td>
</tr>
<tr>
<td>Resistance tolerance</td>
<td>±20 %</td>
</tr>
<tr>
<td>Independent linearity</td>
<td>±1 % of meas. range</td>
</tr>
<tr>
<td>Electrical travel</td>
<td>25 mm</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.05 mm</td>
</tr>
<tr>
<td>Temperature coefficient of the voltage divider</td>
<td>50 ppm/°C</td>
</tr>
<tr>
<td>Recommended wiper current</td>
<td>max. 1 µA</td>
</tr>
<tr>
<td>Max. wiper current in case of malfunction</td>
<td>10 mA</td>
</tr>
<tr>
<td>Power rating P</td>
<td>max. 0.5 W/40°C</td>
</tr>
<tr>
<td>Min. life (electrical)</td>
<td>10 Mio. cycles</td>
</tr>
</tbody>
</table>

**Mechanical Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical travel</td>
<td>25 mm</td>
</tr>
<tr>
<td>Adjusting force of the push rod</td>
<td>max. 3 N</td>
</tr>
<tr>
<td>Adjusting force of the push rod with return spring</td>
<td>max. 10 N</td>
</tr>
<tr>
<td>Min. life (mechanical)</td>
<td>5 Mio. cycles</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25 ... +75 °C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-25 ... +105 °C</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP65</td>
</tr>
</tbody>
</table>

**Standards**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulating resistance (500 VDC, 1bar, 2s)</td>
<td>10 GOhm</td>
</tr>
<tr>
<td>Dielectric strength (VAC, 50Hz, 1min, 1bar)</td>
<td>700 V</td>
</tr>
<tr>
<td>Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz)</td>
<td>10 g</td>
</tr>
<tr>
<td>Shock (half sine pulse, 7 ms)</td>
<td>50 g</td>
</tr>
</tbody>
</table>

**KL250 (KL25/KLR25)**

**Applications**

- Gas pedal

**Features**

- Compact dimensions
- Design flexibility
- 5 Mio. cycles
- Excellent linearity up to ±0.25%
- Very good resolution, better 0.05mm

**Options**

- Linearity ±0.25 %
- Nominal resistances between 1KOhm and 20KOhm
- Pass trough push rod
- Longer push rod
- Connection by wires
- Longer cable
- Tandem-ganged
- Without bushing
- With bushing M6x0.75 or M10x0.75
- With or without return spring

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State: 11-Nov-2005
**Electrical Data**
- Nominal resistance: 5 kOhm
- Resistance tolerance: ±20 %
- Independent linearity: ±1 % of meas. range
- Electrical travel: 50 mm
- Repeatability: 0.05 mm
- Temperature coefficient of the voltage divider: 50 ppm/°C
- Recommended wiper current: max. 1 µA
- Max. wiper current in case of malfunction: 10 mA
- Power rating P: max. 0.5 W/40°C
- Min. life (electrical): 10 Mio. cycles

**Mechanical Data**
- Mechanical travel: 50 mm
- Adjusting force of the push rod: max. 3 N
- Adjusting force of the push rod with return spring: max. 10 N
- Min. life (mechanical): 5 Mio. cycles
- Operating temperature: -25 ... +75 °C
- Storage temperature: -25 ... +105 °C
- Protection class: IP65

**Standards**
- Insulating resistance (500 VDC, 1bar, 2s): 10 GOhm
- Dielectric strength (VAC, 50Hz, 1min, 1bar): 700 V
- Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz): 10 g
- Shock (half sine pulse, 7 ms): 50 g

**KL500 (KL50/KLR50)**

**Applications**
- Gas pedal

**Features**
- Compact dimensions
- Design flexibility
- 5 Mio. cycles
- Excellent linearity up to ±0.25%
- Very good resolution, better 0.05mm

**Options**
- Linearity ±0.25 %
- Nominal resistances between 1KOhm and 20KOhm
- Pass trough push rod
- Longer push rod
- Connection by wires
- Longer cable
- Tandem-ganged
- Without bushing
- With bushing M6x0.75 or M10x0.75
- With or without return spring

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Telefax +41 (0)32 3665604
sales@contelec.ch
Electrical Data

Nominal resistance 5 kOhm
Resistance tolerance ±20 %
Independent linearity ±1 % of meas. range
Electrical travel 75 mm
Repeatability 0.05 mm
Temperature coefficient of the voltage divider 50 ppm/°C
Recommended wiper current max. 1 µA
Max. wiper current in case of malfunction 10 mA
Power rating P max. 0.5 W/40°C
Min. life (electrical) 10 Mio. cycles

Mechanical Data

Mechanical travel 75 mm
Adjusting force of the push rod max. 3 N
Adjusting force of the push rod with return spring max. 10 N
Min. life (mechanical) 5 Mio. cycles
Operating temperature -25 ... +75 °C
Storage temperature -25 ... +105 °C
Protection class IP65

Standards

Insulating resistance (500 VDC, 1bar, 2s) 10 GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar) 700 V
Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz) 10 g
Shock (half sine pulse, 7 ms) 50 g

KL750 (KL75/KLR75)

Applications
- Gas pedal

Features
- Compact dimensions
- Design flexibility
- 5 Mio. cycles
- Excellent linearity up to ±0.25%
- Very good resolution, better 0.05mm

Options
- Linearity ±0.25 %
- Nominal resistances between 1KOhm and 20KOhm
- Pass trough push rod
- Longer push rod
- Connection by wires
- Longer cable
- Tandem-ganged
- Without bushing
- With bushing M6x0.75 or M10x0.75
- With or without return spring

Subject to change without notice
State: 11-Nov-2005
### Electrical Data

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<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal resistance</td>
<td>5 kOhm</td>
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<tr>
<td>Resistance tolerance</td>
<td>±20 %</td>
</tr>
<tr>
<td>Independent linearity</td>
<td>±1 % of meas. range</td>
</tr>
<tr>
<td>Electrical travel</td>
<td>100 mm</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.05 mm</td>
</tr>
<tr>
<td>Temperature coefficient of the voltage divider</td>
<td>50 ppm/°C</td>
</tr>
<tr>
<td>Recommended wiper current</td>
<td>max. 1 µA</td>
</tr>
<tr>
<td>Max. wiper current in case of malfunction</td>
<td>10 mA</td>
</tr>
<tr>
<td>Power rating P</td>
<td>max. 0.5 W/40°C</td>
</tr>
<tr>
<td>Min. life (electrical)</td>
<td>10 Mio. cycles</td>
</tr>
</tbody>
</table>

### Mechanical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Weg</td>
<td>100 mm</td>
</tr>
<tr>
<td>Adjusting force of the push rod</td>
<td>max. 3 N</td>
</tr>
<tr>
<td>Min. life (mechanical)</td>
<td>5 Mio. cycles</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25 ... +75 °C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-25 ... +105 °C</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP65</td>
</tr>
</tbody>
</table>

### Standards

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulating resistance (500 VDC, 1bar, 2s)</td>
<td>10 GOhm</td>
</tr>
<tr>
<td>Dielectric strength (VAC, 50Hz, 1min, 1bar)</td>
<td>700 V</td>
</tr>
<tr>
<td>Vibration (Amag = 0.75mm, f = 30 ... 2000 Hz)</td>
<td>10 g</td>
</tr>
<tr>
<td>Shock (half sine pulse, 7 ms)</td>
<td>50 g</td>
</tr>
</tbody>
</table>

### KL1000 (KL100)

#### Applications
- Gas pedal

#### Features
- Compact dimensions
- Design flexibility
- 5 Mio. cycles
- Excellent linearity up to ±0.25%
- Very good resolution, better 0.05mm

#### Options
- Linearity ±0.25%
- Nominal resistances between 1KOhm and 20KOhm
- Pass through push rod
- Longer push rod
- Connection by wires
- Longer cable
- Tandem-ganged
- Without bushing
- With bushing M6x0.75 or M10x0.75

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