



## KL100 (KL10/KLR10)

### Applications

- Gas pedal

### Features

- Compact dimensions
- Design flexibility
- 5 Mio. cycles
- Excellent linearity up to  $\pm 0.5\%$
- Very good resolution, better 0,05mm

### Options

- Linearity  $\pm 0.5\%$
- 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

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| Electrical Data                                |          |                  |
|------------------------------------------------|----------|------------------|
| Nominal resistance                             | 1        | kOhm             |
| Resistance tolerance                           | $\pm 20$ | %                |
| Independent linearity                          | $\pm 1$  | % 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   | $\mu A$          |
| 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 ... +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    |



## KL250 (KL25/KLR25)

### Applications

- Gas pedal

### Features

- Compact dimensions
- Design flexibility
- 5 Mio. cycles
- Excellent linearity up to  $\pm 0.25\%$
- Very good resolution, better 0,05mm

### Options

- Linearity  $\pm 0.25\%$
- 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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| Electrical Data                                |          |                  |
|------------------------------------------------|----------|------------------|
| Nominal resistance                             | 5        | kOhm             |
| Resistance tolerance                           | $\pm 20$ | %                |
| Independent linearity                          | $\pm 1$  | % of meas. range |
| Electrical travel                              | 25       | mm               |
| Repeatability                                  | 0.05     | mm               |
| Temperature coefficient of the voltage divider | 50       | ppm/°C           |
| Recommended wiper current                      | max. 1   | $\mu A$          |
| 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                                  | 25           | 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  $\pm 0.25\%$
- Very good resolution, better 0,05mm

### Options

- Linearity  $\pm 0.25\%$
- 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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| Electrical Data                                |          |                  |
|------------------------------------------------|----------|------------------|
| Nominal resistance                             | 5        | kOhm             |
| Resistance tolerance                           | $\pm 20$ | %                |
| Independent linearity                          | $\pm 1$  | % 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   | $\mu A$          |
| 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 strenght (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  $\pm 0.25\%$
- Very good resolution, better 0,05mm

### Options

- Linearity  $\pm 0.25\%$
- 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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| Electrical Data                                |          |                  |
|------------------------------------------------|----------|------------------|
| Nominal resistance                             | 5        | kOhm             |
| Resistance tolerance                           | $\pm 20$ | %                |
| Independent linearity                          | $\pm 1$  | % 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   | $\mu A$          |
| 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    |



## KL1000 (KL100)

### Applications

- Gas pedal

### Features

- Compact dimensions
- Design flexibility
- 5 Mio. cycles
- Excellent linearity up to  $\pm 0.25\%$
- Very good resolution, better 0,05mm

### Options

- Linearity  $\pm 0.25\%$
- 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

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| Electrical Data                                |              |                  |
|------------------------------------------------|--------------|------------------|
| Nominal resistance                             | 5            | kOhm             |
| Resistance tolerance                           | $\pm 20$     | %                |
| Independent linearity                          | $\pm 1$      | % of meas. range |
| Electrical travel                              | 100          | mm               |
| Repeatability                                  | 0.05         | mm               |
| Temperature coefficient of the voltage divider | 50           | ppm/°C           |
| Recommended wiper current                      | max. 1       | $\mu A$          |
| 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 Weg                                 | 100          | mm               |
| Adjusting force of the push rod                | max. 3       | 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                |