



## 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

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

Subject to change  
without notice  
State: 11-Nov-2005

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## 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

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 ( $A_{max} = 0.75\text{mm}$ , $f = 30 \dots 2000\text{ Hz}$ )	10	g
Shock (half sine pulse, 7 ms)	50	g

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## 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

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

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## 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

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

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## 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

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 ( $A_{max} = 0.75\text{mm}$ , $f = 30 \dots 2000$ Hz)	10	g
Shock (half sine pulse, 7 ms)	50	g

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