



GL60

Applications

- Door control system
- Road roller

Features

- Hollow shaft Ø 6mm
- 5 Mio. cycles
- Excellent linearity up to $\pm 0.25\%$
- Very good resolution, better $0,1^\circ$

Options

- Resistance tolerance $\pm 10\%$
- Special electrical angles
- Radial cable outlet
- Mechanical end-stop

Subject to change
without notice
State: 27-Oct-2005

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Electrical Data		
Nominal resistance	5/10	kOhm
Resistance tolerance	± 20	%
Independent linearity	± 0.25	% of meas. range
Electrical angle	150/354	$^\circ$
Repeatability	max. 0.1	$^\circ$
Temperature coefficient of the voltage divider	50	ppm/ $^\circ\text{C}$
Recommended wiper current	max. 1	μA
Max. wiper current in case of malfunction	10	mA
Power rating P	max. 0.5	W/40 $^\circ\text{C}$
Min. life (electrical)	10 Mio.	cycles
Mechanical Data		
Mechanical range	360	$^\circ$ (continuous)
Torque	max. 0.5	Ncm
Min. life (mechanical)	5 Mio.	cycles
Operating temperature	-25 ... +75	$^\circ\text{C}$
Storage temperature	-25 ... +105	$^\circ\text{C}$
Protection class	IP63	
Standards		
Insulating resistance (500 VDC, 1bar, 2s)	10	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	1	kV
Vibration (Amax = 0.75mm, f = 30 ... 500 Hz)	10	g
Shock	50	g



GL100

Applications

- Door control system
- Road roller

Features

- Hollow shaft Ø 10mm
- 5 Mio. cycles
- Excellent linearity up to $\pm 0.25\%$
- Very good resolution, better $0,1^\circ$

Options

- Resistance tolerance $\pm 10\%$
- Special electrical angles
- Radial cable outlet
- Continuous

Electrical Data		
Nominal resistance	5/10	kOhm
Resistance tolerance	± 20	%
Independent linearity	± 0.25	% of meas. range
Electrical angle	150/340	$^\circ$
Repeatability	max. 0.1	$^\circ$
Temperature coefficient of the voltage divider	50	ppm/ $^\circ\text{C}$
Recommended wiper current	max. 1	μA
Max. wiper current in case of malfunction	10	mA
Power rating P	max. 0.5	W/40 $^\circ\text{C}$
Min. life (electrical)	10 Mio.	cycles

Mechanical Data		
Mechanical range	348	$^\circ$
Torque	max. 1.5	Ncm
Min. life (mechanical)	5 Mio.	cycles
Operating temperature	-25 ... +75	$^\circ\text{C}$
Storage temperature	-25 ... +105	$^\circ\text{C}$
Protection class	IP63	

Standards		
Insulating resistance (500 VDC, 1bar, 2s)	10	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	1	kV
Vibration (Amax = 0.75mm, f = 30 ... 500 Hz)	10	g
Shock	50	g

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GL200

Applications

- Door control system
- Road roller

Features

- Hollow shaft Ø 20mm
- 5 Mio. cycles
- Excellent linearity up to $\pm 0.25\%$
- Very good resolution, better $0,1^\circ$

Options

- Resistance tolerance $\pm 10\%$
- Special electrical angles
- Radial cable outlet
- Continuous

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Electrical Data		
Nominal resistance	5/10	kOhm
Resistance tolerance	± 20	%
Independent linearity	± 0.25	% of meas. range
Electrical angle	150/340	$^\circ$
Repeatability	max. 0.1	$^\circ$
Temperature coefficient of the voltage divider	50	ppm/ $^\circ\text{C}$
Recommended wiper current	max. 1	μA
Max. wiper current in case of malfunction	10	mA
Power rating P	max. 0.5	W/40 $^\circ\text{C}$
Min. life (electrical)	10 Mio.	cycles
Mechanical Data		
Mechanical range	346	$^\circ$
Torque	max. 6	Ncm
Min. life (mechanical)	5 Mio.	cycles
Operating temperature	-25 ... +75	$^\circ\text{C}$
Storage temperature	-25 ... +105	$^\circ\text{C}$
Protection class	IP63	
Standards		
Insulating resistance (500 VDC, 1bar, 2s)	10	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	1	kV
Vibration (Amax = 0.75mm, f = 30 ... 500 Hz)	10	g
Shock	50	g



GL300

Applications

- Door control system
- Road roller

Features

- Hollow shaft Ø 30mm
- 5 Mio. cycles
- Excellent linearity up to $\pm 0.25\%$
- Very good resolution, better $0,1^\circ$

Options

- Resistance tolerance $\pm 10\%$
- Special electrical angles
- Radial cable outlet
- Continuous

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Electrical Data		
Nominal resistance	5/10	kOhm
Resistance tolerance	± 20	%
Independent linearity	± 0.25	% of meas. range
Electrical angle	150/340	$^\circ$
Repeatability	max. 0.1	$^\circ$
Temperature coefficient of the voltage divider	50	ppm/ $^\circ\text{C}$
Recommended wiper current	max. 1	μA
Max. wiper current in case of malfunction	10	mA
Power rating P	max. 0.5	W/40 $^\circ\text{C}$
Min. life (electrical)	10 Mio.	cycles
Mechanical Data		
Mechanical range	348	$^\circ$
Torque	max. 6	Ncm
Min. life (mechanical)	5 Mio.	cycles
Operating temperature	-25 ... +75	$^\circ\text{C}$
Storage temperature	-25 ... +105	$^\circ\text{C}$
Protection class	IP63	
Standards		
Insulating resistance (500 VDC, 1bar, 2s)	10	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	1	kV
Vibration (Amax = 0.75mm, f = 30 ... 500 Hz)	10	g
Shock	50	g



GL400

Applications

- Door control system
- Road roller

Features

- Hollow shaft Ø 40mm
- 5 Mio. cycles
- Excellent linearity up to $\pm 0.25\%$
- Very good resolution, better $0,1^\circ$

Options

- Resistance tolerance $\pm 10\%$
- Special electrical angles
- Radial cable outlet
- Continuous

Electrical Data		
Nominal resistance	5/10	kOhm
Resistance tolerance	± 20	%
Independent linearity	± 0.25	% of meas. range
Electrical angle	150/340	°
Repeatability	max. 0.1	°
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 range	350	°
Torque	max. 15	Ncm
Min. life (mechanical)	5 Mio.	cycles
Operating temperature	-25 ... +75	°C
Storage temperature	-25 ... +105	°C
Protection class	IP63	
Standards		
Insulating resistance (500 VDC, 1bar, 2s)	10	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	1	kV
Vibration (Amax = 0.75mm, f = 30 ... 500 Hz)	10	g
Shock	50	g

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GL500

Applications

- Door control system
- Road roller

Features

- Hollow shaft Ø 50mm
- 5 Mio. cycles
- Excellent linearity up to $\pm 0.25\%$
- Very good resolution, better $0,1^\circ$

Options

- Resistance tolerance $\pm 10\%$
- Special electrical angles
- Radial cable outlet
- Continuous

Electrical Data		
Nominal resistance	5/10	kOhm
Resistance tolerance	± 20	%
Independent linearity	± 0.25	% of meas. range
Electrical angle	150/340	$^\circ$
Repeatability	max. 0.1	$^\circ$
Temperature coefficient of the voltage divider	50	ppm/ $^\circ\text{C}$
Recommended wiper current	max. 1	μA
Max. wiper current in case of malfunction	10	mA
Power rating P	max. 0.5	W/40 $^\circ\text{C}$
Min. life (electrical)	10 Mio.	cycles

Mechanical Data		
Mechanical range	350	$^\circ$
Torque	max. 15	Ncm
Min. life (mechanical)	5 Mio.	cycles
Operating temperature	-25 ... +75	$^\circ\text{C}$
Storage temperature	-25 ... +105	$^\circ\text{C}$
Protection class	IP63	

Standards		
Insulating resistance (500 VDC, 1bar, 2s)	10	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	1	kV
Vibration ($A_{\text{max}} = 0.75\text{mm}$, $f = 30 \dots 500 \text{ Hz}$)	10	g
Shock	50	g

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