



<b>Electrical Data</b>		
Nominal resistance	1/5/10	kOhm
Resistance tolerance	±20	%
Independent linearity	±2	% of meas. range
Electrical angle	2160	°
Repeatability	3.6	°
Temperature coefficient of the voltage divider	50	ppm/°C
Recommended wiper current	max. 1	µA
Max. wiper current in case of malfunction	5	mA
Power rating P	0.5	W/40°C
Min. life (electrical)	15 Mio.	turns
<b>Mechanical Data</b>		
Mechanical range	6	turns
Adjusting speed	max. 1800	°/s
Min. life (mechanical)	15 Mio.	turns
Operating temperature	-25 ... +75	°C
Storage temperature	-25 ... +105	°C
Protection class	IP65	
<b>Standards</b>		
Insulating resistance (500 VDC, 1bar, 2s)	1	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	1	kV
Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz)	10	g
Shock (half sine pulse, 7 ms)	30	g

## ML06

### Applications

- Fork-lifter

### Features

- Small dimensions
- 6 turns
- Friction clutch on mechanical end-stops (continuous)
- 15 Mio. turns
- Very good resolution, better 0,1%

### Options

- Shaft diameter 6.35 mm (max. length 25 mm)
- Shaft diameter 3 mm (max. length 10 mm)
- Customer specific cable length
- Tandem-ganged potentiometer
- Wiper protection resistance
- Connection by wires

Errors and omissions excepted. Subject to change without notice. State: 26.02.15

Contelec AG  
 Portstrasse 38  
 CH-2503 Biel/Bienne  
 Phone +41 (0)32 3665600  
 Telefax +41 (0)32 3665604  
 sales@contelec.ch

**CONTELEC**  
 A company of the Siedle-Group



Electrical Data		
Nominal resistance	1/5/10	kOhm
Resistance tolerance	±20	%
Independent linearity	±0.5	% of meas. range
Electrical angle	3240	°
Repeatability	3.24	°
Temperature coefficient of the voltage divider	50	ppm/°C
Recommended wiper current	max. 1	µA
Max. wiper current in case of malfunction	5	mA
Power rating P	0.25	W/40°C
Min. life (electrical)	15 Mio.	turns
Mechanical Data		
Mechanical range	10	turns
Adjusting speed	max. 1800	°/s
Min. life (mechanical)	15 Mio.	turns
Operating temperature	-25 ... +75	°C
Storage temperature	-25 ... +105	°C
Protection class	IP65	
Standards		
Insulating resistance (500 VDC, 1bar, 2s)	1	GOhm
Dielectric strenght (VAC, 50Hz, 1min, 1bar)	1	kV
Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz)	10	g
Shock (half sine pulse, 7 ms)	30	g

## ML10

### Applications

- Fork-lifter

### Features

- Small dimensions
- 10 turns
- Friction clutch on mechanical end-stops (continuous)
- 15 Mio. turns
- Excellent linearity
- Very good resolution, better 0,1%

### Options

- Shaft diameter 6.35 mm (max. length 25 mm)
- Shaft diameter 3 mm (max. length 10 mm)
- Customer specific cable length
- Tandem-ganged potentiometer
- Wiper protection resistance
- Connection by wires

Errors and omissions excepted. Subject to change without notice. State: 26.02.15

Contelec AG  
 Portstrasse 38  
 CH-2503 Biel/Bienne  
 Phone +41 (0)32 3665600  
 Telefax +41 (0)32 3665604  
 sales@contelec.ch

**CONTELEC**  
 A company of the Siedle-Group



Electrical Data		
Nominal resistance	1/5/10	kOhm
Resistance tolerance	±20	%
Independent linearity	±0.25	% of meas. range
Electrical angle	8280	°
Repeatability	3.32	°
Temperature coefficient of the voltage divider	50	ppm/°C
Recommended wiper current	max. 1	µA
Max. wiper current in case of malfunction	5	mA
Power rating P	0.25	W/40°C
Min. life (electrical)	15 Mio.	turns
Mechanical Data		
Mechanical range	25	turns
Adjusting speed	max. 1800	°/s
Min. life (mechanical)	15 Mio.	turns
Operating temperature	-25 ... +75	°C
Storage temperature	-25 ... +105	°C
Protection class	IP65	
Standards		
Insulating resistance (500 VDC, 1bar, 2s)	1	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	1	kV
Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz)	10	g
Shock (half sine pulse, 7 ms)	30	g

## ML25

### Applications

- Fork-lifter

### Features

- Small dimensions
- 25 turns
- Friction clutch on mechanical end-stops (continuous)
- 15 Mio. turns
- Excellent linearity
- Very good resolution, better 0,1%

### Options

- Shaft diameter 6.35 mm (max. length 25 mm)
- Shaft diameter 3 mm (max. length 10 mm)
- Customer specific cable length
- Tandem-ganged potentiometer
- Wiper protection resistance
- Connection by wires

Errors and omissions excepted. Subject to change without notice. State: 26.02.15

Contelec AG  
 Portstrasse 38  
 CH-2503 Biel/Bienne  
 Phone +41 (0)32 3665600  
 Telefax +41 (0)32 3665604  
 sales@contelec.ch

**CONTELEC**  
 A company of the Siedle-Group



Electrical Data		
Nominal resistance	1/5/10	kOhm
Resistance tolerance	±20	%
Independent linearity	±0.25	% of meas. range
Electrical angle	17280	°
Repeatability	3.46	°
Temperature coefficient of the voltage divider	50	ppm/°C
Recommended wiper current	max. 1	µA
Max. wiper current in case of malfunction	5	mA
Power rating P	0.25	W/40°C
Min. life (electrical)	15 Mio.	turns

Mechanical Data		
Mechanical range	50	turns
Adjusting speed	max. 1800	°/s
Min. life (mechanical)	15 Mio.	turns
Operating temperature	-25 ... +75	°C
Storage temperature	-25 ... +105	°C
Protection class	IP65	

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

## ML50

### Applications

- Fork-lifter

### Features

- Small dimensions
- 50 turns
- Friction clutch on mechanical end-stops (continuous)
- 15 Mio. turns
- Excellent linearity
- Very good resolution, better 0,1%

### Options

- Shaft diameter 6.35 mm (max. length 25 mm)
- Shaft diameter 3 mm (max. length 10 mm)
- Customer specific cable length
- Tandem-ganged potentiometer
- Wiper protection resistance
- Connection by wires

Errors and omissions excepted. Subject to change without notice. State: 26.02.15

Contelec AG  
 Portstrasse 38  
 CH-2503 Biel/Bienne  
 Phone +41 (0)32 3665600  
 Telefax +41 (0)32 3665604  
 sales@contelec.ch

**CONTELEC**  
 A company of the Siedle-Group



Electrical Data		
Nominal resistance	1/5/10	kOhm
Resistance tolerance	±20	%
Independent linearity	±0.25	% of meas. range
Electrical angle	34560	°
Repeatability	3.46	°
Temperature coefficient of the voltage divider	50	ppm/°C
Recommended wiper current	max. 1	µA
Max. wiper current in case of malfunction	5	mA
Power rating P	0.25	W/40°C
Min. life (electrical)	15 Mio.	turns

Mechanical Data		
Mechanical range	100	turns
Adjusting speed	max. 1800	°/s
Min. life (mechanical)	15 Mio.	turns
Operating temperature	-25 ... +75	°C
Storage temperature	-25 ... +105	°C
Protection class	IP65	

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

## ML100

### Applications

- Fork-lifter

### Features

- Small dimensions
- 100 turns
- Friction clutch on mechanical end-stops (continuous)
- 15 Mio. turns
- Excellent linearity
- Very good resolution, better 0,1%

### Options

- Shaft diameter 6.35 mm (max. length 25 mm)
- Shaft diameter 3 mm (max. length 10 mm)
- Customer specific cable length
- Tandem-ganged potentiometer
- Wiper protection resistance
- Connection by wires

Errors and omissions excepted. Subject to change without notice. State: 26.02.15

Contelec AG  
 Portstrasse 38  
 CH-2503 Biel/Bienne  
 Phone +41 (0)32 3665600  
 Telefax +41 (0)32 3665604  
 sales@contelec.ch

**CONTELEC**  
 A company of the Siedle-Group