



Mechanical Data		
Dimensions	see drawing	
Mounting	with 3 clamps Z 1 - 11	
Mechanical travel	360, continuous	°
Permitted shaft loading (axial and radial) static or dynamic force	15	N
Torque	≤0.07	Ncm
Maximum operational speed	10 000	min <sup>-1</sup>
Weight	20	g
Electrical Data		
Actual electrical travel	345 ±2	°
Available resistance values	1; 2; 5	kΩ
Resistance tolerance	±10	%
Repeatability	0.003 (Δ 0.01°)	%
Effective temperature coefficient of the output-to-applied voltage ratio	typical 5	ppm/K
Independent linearity	±0.2 (< 0.2 on request)	%
Max. permissible applied voltage	42	V
Recommended operating wiper current	≤ 1	μA
Max. wiper current in case of malfunction	10	mA
Insulation resistance (500 VDC, 1 bar, 2 s)	≥ 10	MΩ
Dielectric strength (50 Hz, 2 s, 1 bar, 500 VAC)	≤100	μA

Environmental Data		
Temperature range	-40...+100	°C
Vibration	5...2000 A <sub>max</sub> = 0.75 a <sub>max</sub> = 20	Hz mm g
Shock	50 11	g ms
Life	100 x 10 <sup>6</sup>	movem.
Protection class	IP 40 (DIN 400 50 / IEC 529)	

Order designations		
Type	Art.no.	R in kΩ
P2501 A102	003201	1
P2501 A202	003202	2
P2501 A502	003203	5

Type designations for non-standard models will be specified upon receipt of order.

**Included in delivery**  
3 mounting clamps Z1-11

**Recommended accessories**  
Fork coupling Z 103 G 3  
(backlash free),  
Process-controlled indicators  
MAP... with display,  
Signal conditioner MUP.../  
MUK ... for standardized out-  
put signals

**Important**  
All the values given in this  
data sheet for linearity, lifetime  
and temperature coefficient in  
the voltage dividing mode are  
quoted for the device opera-  
ting with the wiper voltage dri-  
ving on operational amplifier  
working as a voltage follower,  
where virtually no load is ap-  
plied to the wiper ( $I_e \leq 1 \mu A$ ).