

## **ELECTRICAL SPECIFICATIONS**

<b>Theoretical electrical travel (TET) (TET = E)</b>	from 25 mm to 1000 mm in increments of 25 mm
<b>Independent linearity (over TET) on request</b>	$\leq \pm 1\%$ ; $\leq \pm 0,1\%$ $\leq \pm 0,05\%$ for $E \geq 100$ mm $\leq \pm 0,025\%$ for $E \geq 200$ mm
<b>Actual electrical travel (AET)</b>	$E = 1,5$ mm min.
<b>Ohmic values</b>	400 $\Omega$ /cm to 2 k $\Omega$ /cm
<b>Resistance tolerance at 20°C</b>	$\pm 20\%$
<b>Repeatability</b>	$\leq 0,01\%$
<b>Maximum power rating</b>	0,04 W/cm at 70°C 0 W at 125°C
<b>Wiper current</b>	recommended : a few $\mu$ A - 1 mA max. continuous
<b>Load resistance</b>	minimum $10^3 \times R_T$
<b>Insulation resistance</b>	$\geq 1000$ M $\Omega$ 500 V DC
<b>Dielectric strength</b>	$\geq 1000$ V RMS 50 Hz

## **MECHANICAL SPECIFICATIONS**

<b>Mechanical travel</b>	$E + 8 \pm 2$ mm
<b>Housing</b>	anodized aluminium
<b>Operating force</b>	7,5 N typical
<b>Shaft (free rotation)</b>	stainless steel
<b>Termination</b>	hydraulic type connector DIN 43650
<b>Wiper</b>	precious metal multifinger
<b>Mounting</b>	movable brackets

## **PERFORMANCES**

<b>Operating life</b>	100 millions cycles typical
<b>Temperature range</b>	-55°C +125°C
<b>Sine vibration on 3 axes</b>	1,5 mm peak to peak 0-10Hz 15 g - 10 Hz - 2000 Hz
<b>Mechanical shocks on 3 axes</b>	50 g - 11 ms - half sine
<b>Speed (m/s)</b>	10 max.