

ELECTRICAL SPECIFICATIONS

Theoretical electrical travel (TET = E) on request	from 25 mm to 3000 mm in increments of 25 mm up to 6000 mm
Independent linearity (over TET) on request	$\leq \pm 1\%$ - $\leq \pm 0,1\%$ $\leq \pm 0,05\%$ for $E \geq 100$ mm $\leq \pm 0,025\%$ for $E \geq 200$ mm
Actual electrical travel (AET)	$AET = E + 1,5$ mm min.
Ohmic value (R_T)	400 Ω /cm to 2 k Ω /cm
Resistance tolerance at 20°C	$\pm 20\%$
Repeatability	$\leq 0,01\%$
Maximum power rating	0,04 W/cm at 70°C 0 W at 125°C
Wiper current	recommended : a few μ A 1 mA max. continuous
Load resistance	minimum $10^3 \times R_T$
Insulation resistance	≥ 1000 M Ω 500 VDC
Dielectric strength	≥ 1000 V RMS 50 Hz

MECHANICAL SPECIFICATIONS

Mechanical travel (MT)	$MT = E + 7$ mm min.
Housing	anodized aluminium
Operating force	2,5 N typical
Coupling	self alignment
Termination	hydraulic type connector DIN 43650
Wiper	precious metal multifinger
Sealed to	IP53
Mounting	movable brackets

PERFORMANCES

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