

**115 L****REC**

precision linear transducer – conductive plastic

The 115L is a simply mounted, robust, high precision industrial linear motion transducer.

- MEASUREMENT RANGE 25 mm to 1000 mm
- HIGH ACCURACY $\pm 1\%$ down to $\pm 0,025\%$
- EXCELLENT REPEATABILITY
- LONG LIFE
- ESSENTIALLY INFINITE RESOLUTION
- NOT SENSITIVE TO TEMPERATURE VARIATIONS



ELECTRICAL SPECIFICATIONS

Theoretical electrical travel (TET = E)	from 25 mm to 1000 mm in increments of 25 mm
Independent linearity (over TET)	$\leq \pm 1\%$ - $\leq \pm 0,1\%$
on request	$\leq \pm 0,05\%$ for $E \geq 100$ mm $\leq \pm 0,025\%$ for $E \geq 200$ mm
Actual electrical travel (AET)	$E = 1,5$ mm min.
Ohmic values	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	$E + 8 \pm 2$ mm
Housing	anodized aluminium
Operating force	7,5 N typical
Shaft (free rotation)	stainless steel
Termination	hydraulic type connector DIN 43650
Wiper	precious metal multifinger
Mounting	movable brackets

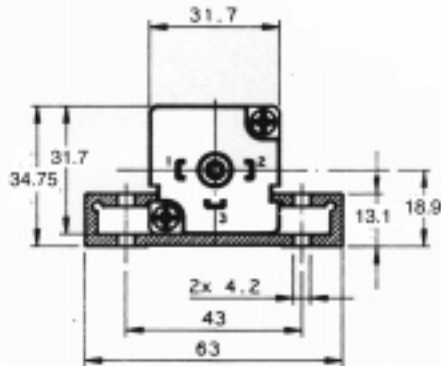
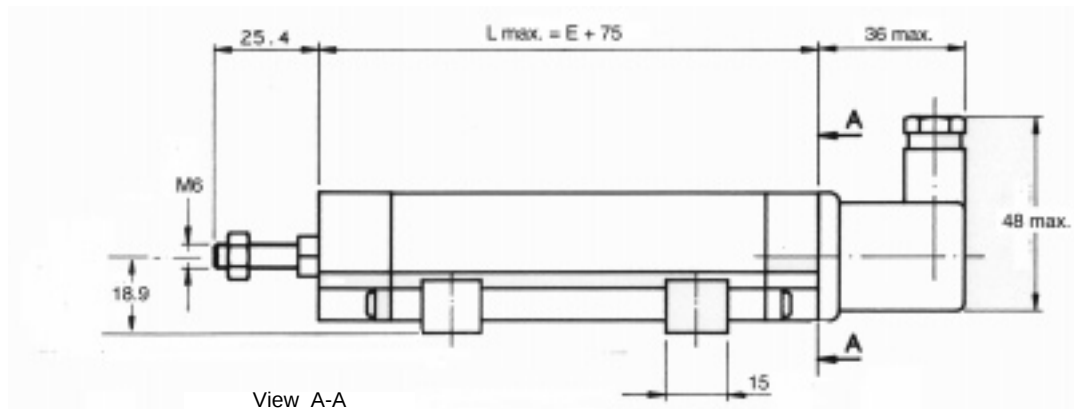
PERFORMANCES

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

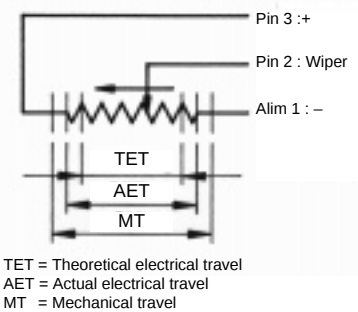
ORDERING PROCEDURE

SERIES	MODEL	NUMBER OF TRACKS	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS
REC	115	L L = 1	23 Times 25 mm	D A : $\pm 1\%$ D : $\pm 0,1\%$ E : $\pm 0,05\%$ F : $\pm 0,025\%$	103 First 2 digits are significant numbers 3rd digit indicates number of zeros	W... Special feature code number

115 L

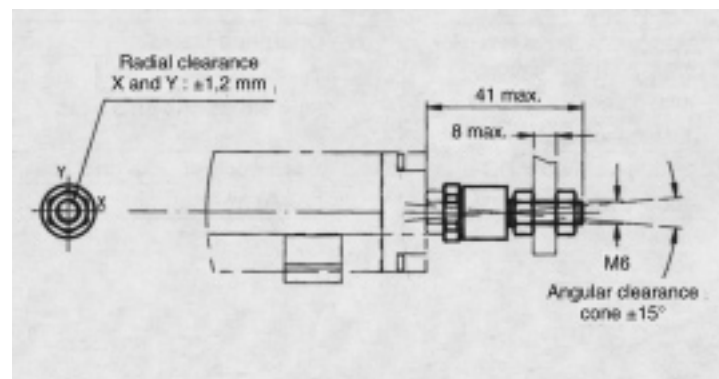


ELECTRICAL CONNECTIONS



OPTION : SPECIAL BALL JOINT ON SHAFT

...W 06001



General tolerance ± 1 mm
Dimensions in mm



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