

Precision Linear Transducers, Designed for Mounting in Hydraulic or Pneumatic Cylinder, Conductive Plastic Element (REC)


FEATURES

- Large Range of Strokes from 25 to 500 mm
- High Accuracy
- Very Good Repeatability
- Continuous Resolution
- Easy Mounting

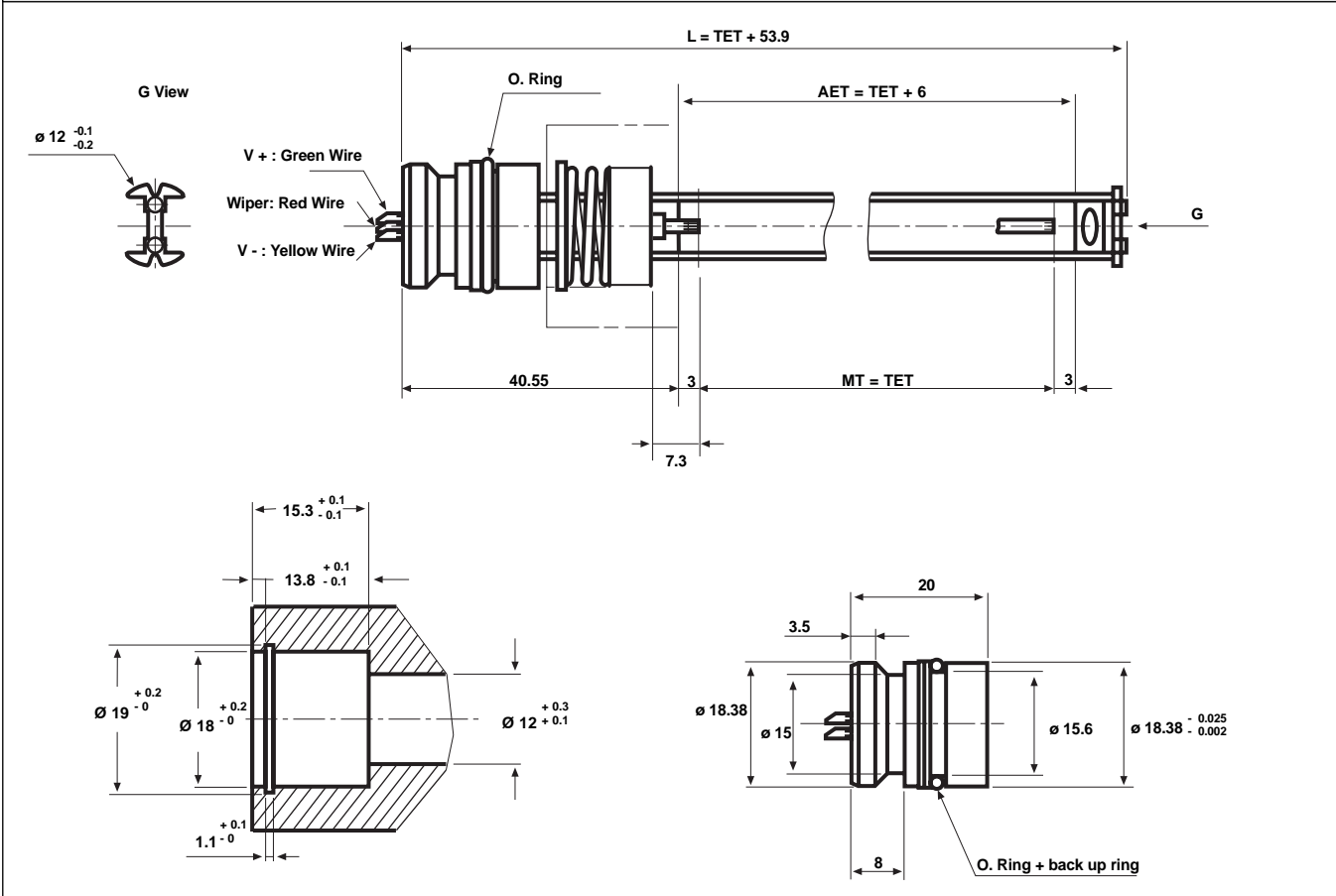
This sensor is to be installed in the high pressure chamber of small cylinders and is equipped with glass-sealed electrical outputs.

ELECTRICAL SPECIFICATIONS	
Theoretical electrical travel (TET = E)	from 25mm to 500mm in increments of 25mm
Independent linearity over TET on request	$\leq \pm 1\%$; $\leq \pm 0.1\%$ $\leq \pm 0.05\%$ if $E \geq 100\text{mm}$ $\leq \pm 0.025\%$ if $E \geq 200\text{mm}$
Actual electrical travel (AET)	TET + 6mm \pm 0.5
Total resistance R_T	150 Ω /cm
Resistance tolerance at 20°C	$\pm 20\%$
Repeatability	$\leq 0.01\%$
Maximum power rating	0.05W/cm at 70°C, 0W at 125°C
Wiper current	1mA max. continuous, recommended: a few μA
Load impedance	1000 times R_T minimum
Insulation resistance	> 1000M Ω 500VDC
Dielectric strength	> 300VRMS at 50Hz

MECHANICAL SPECIFICATIONS	
Mechanical travel MT	MT = TET
Body	anodized aluminum
Rod internal diameter	\varnothing 12mm
Support	stainless steel
Operating force	1N typical
Sealing	glass-sealing on electrical outputs
Electrical outputs	wires AWG 26 L = 300mm
Oil	insulating mineral hydraulic
Pressure	300 bars continuous, 1000 bars accidentally
Wiper	precious metal multifinger

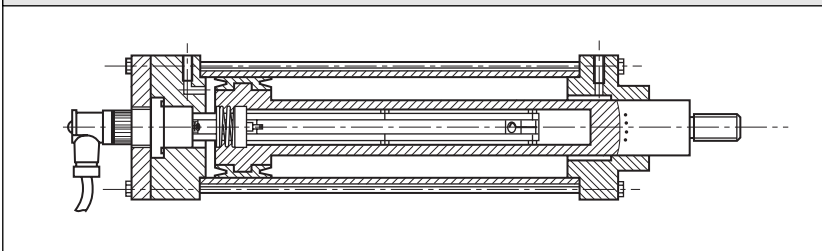
PERFORMANCE	
Life	40 million of cycles
Temperature limits	- 20°C to + 80°C
Speed at 20°C	1.5m/s max.

DIMENSIONS in millimeters, general tolerance ± 1 mm

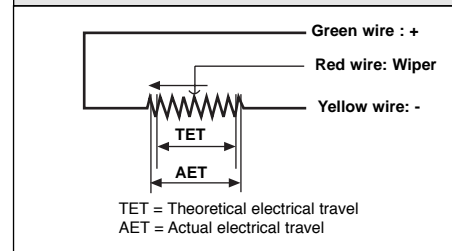


General Tolerance: ± 1 mm

MOUNTING IN ACTUATOR



ELECTRICAL CONNECTIONS



ORDERING INFORMATION

REC	10	LA	4	D	152	W...
SERIES	MODEL	TYPE	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	RESISTANCE	MODIFICATIONS
		Sealed	Times 25mm	A : $\leq \pm 1\%$ D : $\leq \pm 0.1\%$ E : $\leq \pm 0.05\%$ F : $\leq \pm 0.025\%$	First 2 digits are significant numbers Third indicates number of zeros	Special Feature Code Number