

## Precision Linear Transducers, Designed for Mounting in Hydraulic or Pneumatic Cylinder, Conductive Plastic Element (Unsealed Series/Ø 16 mm)



### FEATURES

- Large range of strokes from 25 to 2000 mm
- High accuracy
- Very good repeatability
- Continuous resolution
- Easy mounting



**RoHS**  
COMPLIANT

These unsealed sensors are suitable for installation in the high pressure chamber of cylinders.

### ELECTRICAL SPECIFICATIONS

Theoretical Electrical Travel (TET) = E	From 25 mm to 2000 mm in increments of 25 mm
Independent Linearity (over TET) On Request	$\leq \pm 1 \%$ ; $\leq \pm 0.1 \%$ $\leq \pm 0.05 \%$ if $E \geq 100$ mm, $\leq \pm 0.025 \%$ if $E \geq 200$ mm
Actual Electrical Travel (AET)	TET + 6 mm $\pm$ 0.5
Total Resistance $R_T$	150 $\Omega$ /cm
Resistance Tolerance at 20 °C	$\pm 20 \%$
Repeatability	$\leq 0.01 \%$
Maximum Power Rating	0.05 W/cm at 70 °C, 0 W at 125 °C
Wiper Current	Recommended: a few $\mu$ A - 1 mA max. (continuous)
Load Impedance	1000 times $R_T$ minimum
Insulation Resistance	> 1000 M $\Omega$ , 500 V <sub>DC</sub>
Dielectric Strength	> 300 V <sub>RMS</sub> at 50 Hz

### MECHANICAL SPECIFICATIONS

Mechanical Travel (MT)	MT = TET
Body	Anodized aluminum
Rod Internal Diameter	16 LH: Ø 18 mm
Support	2 screws
Operating Force	1 N typical
Electrical Outputs	Wires 300 mm long
Oil	Insulating mineral hydraulic
Pressure	300 bars continuous, 1000 bars accidentally
Wiper	Precious metal multifinger

### PERFORMANCE

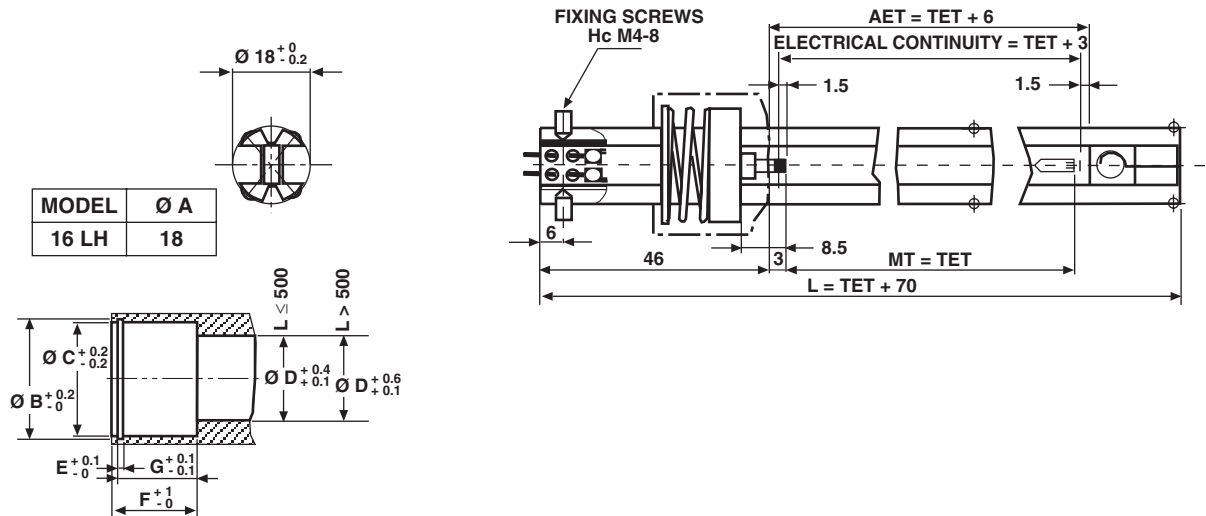
Life	25 million cycles typical/1 Hz/T° = 20 °C $\pm$ 5 °C/80 % TET
Temperature Limits	- 20 °C to + 80 °C
Speed at 20 °C	1.5 m/s max.

# Series REC 16 LH

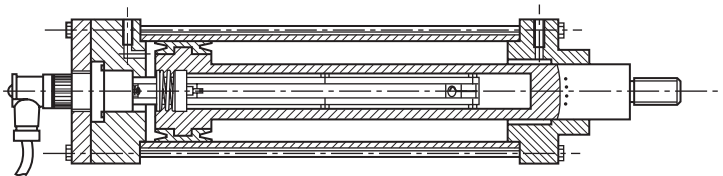


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## DIMENSIONS in millimeters, general tolerance $\pm 1$ mm

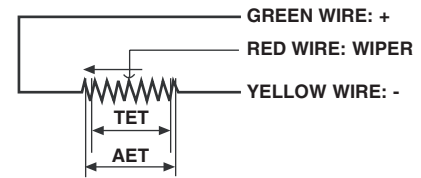


## MOUNTING IN ACTUATOR



On these models:  
Cylinder sealing and electrical connections required

## ELECTRICAL CONNECTIONS



TET = THEORETICAL ELECTRICAL TRAVEL  
AET = ACTUAL ELECTRICAL TRAVEL

## ORDERING INFORMATION/DESCRIPTION

REC	16	LH	4	D	152	W...	e.
SERIES	MODEL	TYPE	THEORETICAL ELECTRICAL	LINEARITY	RESISTANCE	MODIFICATIONS	LEAD FINISH
		Unsealed	Times 25 mm	A: $\pm 1\%$ D: $\pm 0.1\%$ E: $\pm 0.05\%$ F: $\pm 0.025\%$	First 2 digits are significant numbers 3rd digit indicates number of zeros	Special feature code number	

## SAP PART NUMBERING GUIDELINES

RE	16 LH	4	D	152	W....
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES



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