# Series REC 10 LA



**Vishay Sfernice** 

### Precision Linear Transducers, Designed for Mounting in Hydraulic or Pneumatic Cylinder, Conductive Plastic (Sealed Series/Ø 10 mm)



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

### **FEATURES**

- Large range of strokes from 25 mm to 500 mm
- High accuracy
- Very good repeatability
- Continuous resolution
- · Easy mounting
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

QUICK REFERENCE DATA					
Sensor type	LINEAR, conductive plastic				
Output type	Wires				
Market appliance	Industrial				
Dimensions	10 mm dia.				

ELECTRICAL SPECIFICATIONS						
Theoretical electrical travel (TET) = E	From 25 mm to 500 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 ± 0.5					
Total resistance R <sub>T</sub>	150 Ω/cm					
Resistance tolerance at 20 °C	± 20 %					
Repeatability	≤ 0.01 %					
Maximum power rating	0.05 W/cm at 70 °C, 0 W at 125 °C					
Wiper current	Recommended: a few µA - 1 mA max. (continuous)					
Load resistance	1000 times R <sub>T</sub> minimum					
Insulation resistance	> 1000 MΩ, 500 V <sub>DC</sub>					
vielectric strength > 300 V <sub>RMS</sub> at 50 Hz						
MECHANICAL SPECIFICATIONS	NAT TET					
Mechanical travel (MT)	MT = TET					
Body	Anodized aluminum					
Rod internal diameter	Ø 12 mm					
Support	Stainless steel					
Operating force	1 N typical					
Sealing	Glass-sealing on electrical outputs Wires AWG 26 L = 300 mm					
Electrical outputs Oil						
Pressure	Insulating mineral hydraulic					
	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					
	-20 °C to +80 °C					
Temperature limits	-20 °C to +80 °C					

#### Note

Nothing stated herein shall be construed as a guarantee of guality or durability.

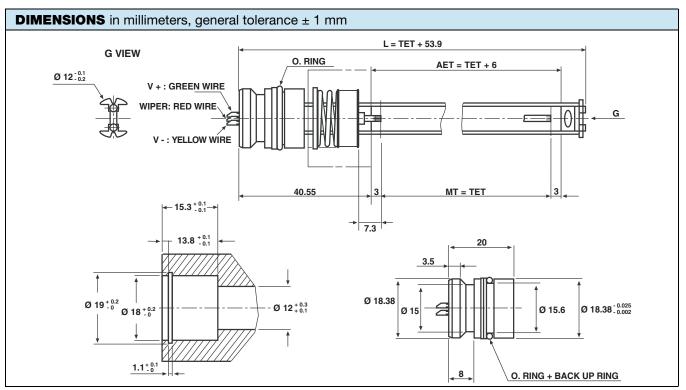
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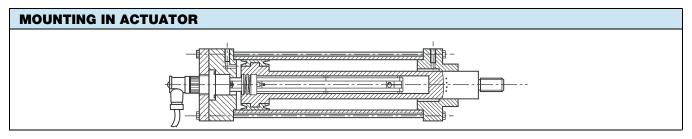
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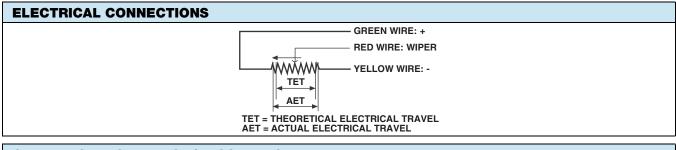
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General Tolerance: ± 1 mm





ORDERING INFORMATION/DESCRIPTION									
REC	10	LA	4	D	152	W	e.		
SERIES	MODEL	TYPE	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	RESISTANCE	MODIFICATIONS	LEAD FINISH		
		Sealed	Times 25 mm	$\begin{array}{l} A: \leq \pm \ 1 \ \% \\ D: \leq \pm \ 0.1 \ \% \\ E: \leq \pm \ 0.05 \ \% \\ F: \leq \pm \ 0.025 \ \% \end{array}$	First 2 digits are significant numbers 3 <sup>rd</sup> digit indicates number of zeros	Special feature code number			
SAP PART NUMBERING GUIDELINES									
RE		10 LA	4	D	152		W		
SER	ES	MODEL	TET	LINEARITY	Y OHMIC VA	ALUE SPECIAI	FEATURES		
Revision: 26	-Mar-15			2		Document N	Number: 54017		

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