

Vishay Sfernice

Precision Linear Transducers, Conductive Plastic, up to 450 mm

FEATURES









- Long life
- Sealed on request



The 34 L is a compact, accurate and adaptable motion transducer for both industrial and military markets.

ELECTRICAL SPECIFICATIONS					
Theoretical Electrical Travel (TET = E) in Increments of 25 mm	25 mm 450 mm				
Independent Linearity (over TET) On Request	$\leq \pm 1 \% - \leq \pm 0.1 \%$ $\leq \pm 0.05 \%$ for E ≥ 100 mm $\leq \pm 0.025 \%$ for E ≥ 200 mm				
Actual Electrical Travel (AET)	See table 1				
Ohmic Values (R _T)	From 400 Ω/cm to 2 kΩ/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	Minimum 10 ³ x R _T				
Number of Tracks	1; on request 2				
Insulation Resistance	≥ 1000 MΩ, 500 V _{DC}				
Dielectric Strength	≥ 750 V _{RMS} , 50 Hz				

MECHANICAL SPECIFICATIONS				
Mechanical Travel	TET + 2 mm min.			
Housing	Anodized aluminum			
Operating Force On Request	0.35 N typical (standard model)	2.50 N typical (sealed model)		
Shaft (Free Rotation)	Stainless steel			
Termination On Request	3 wires PTFE AWG-30 L = 300 mm cable or connector			
Wiper	Precious metal multifinger			
Sealing	IP65 on request			

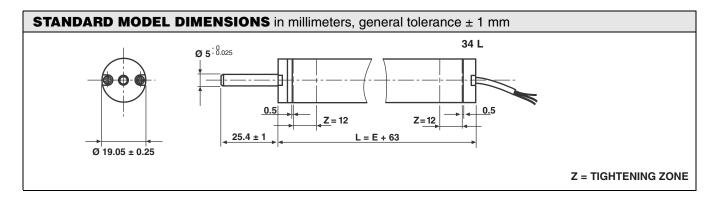
PERFORMANCE				
Operating Life 25 million cycles typical/1 Hz/T° = 20 °C ± 5 °C/80 % TET				
Temperature Range	- 55 °C to + 125 °C			
Sine Vibration on 3 Axes 1.5 mm peak to peak or 15 g - 10 Hz - 2000 Hz				
Mechanical Shocks on 3 Axes	50 g - 11 ms - half sine			

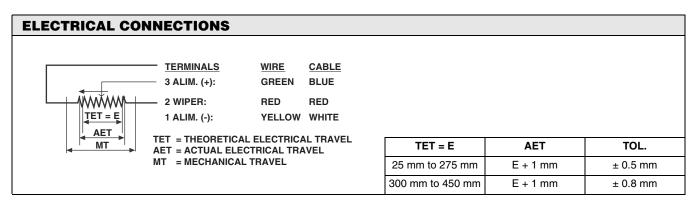
Series REC 34 L

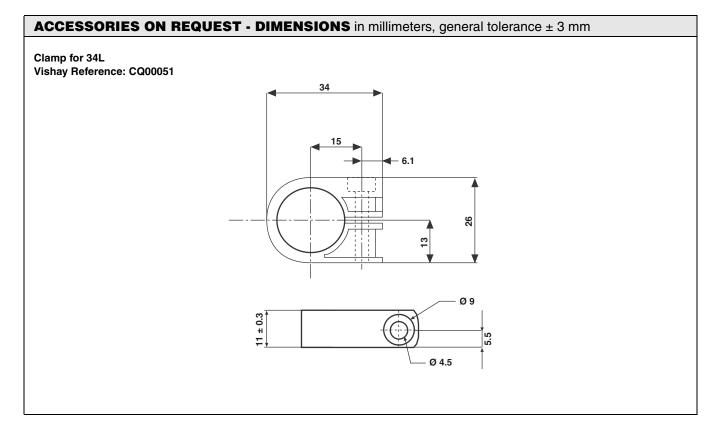
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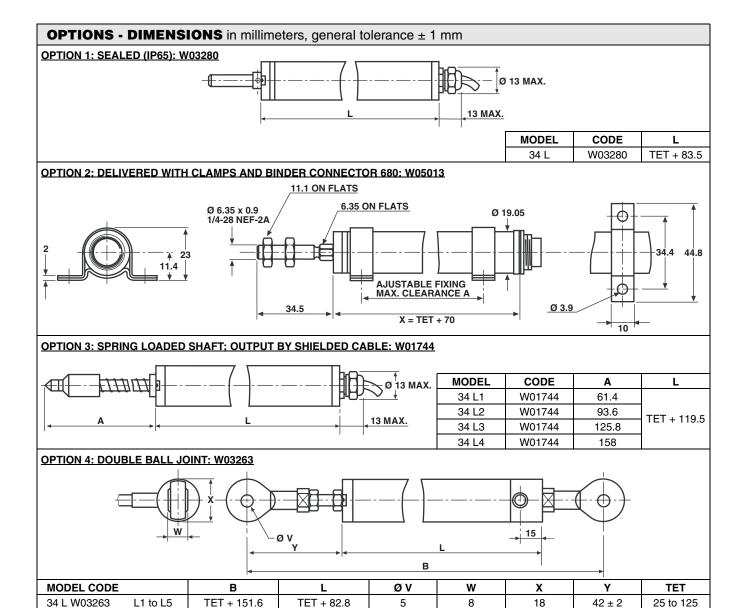


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ORDERING INFORMATION/DESCRIPTION							•
REC	34	L	3	D	103	W	e.
SERIES	MODEL	NUMBER OF TRACKS	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS	LEAD FINISH
		L = 1 track LL = 2 tracks	Times 25 mm	A: ± 1 % D: ± 0.1 % E: ± 0.05 % F: ± 0.025 %	First 2 digits are significant numbers 3rd digit indicates number of zeros	Special feature code number	

5

8

18

18

 42 ± 2

 42 ± 2

TET + 104.8

TET + 161.2

SAP PART NUMBERING GUIDELINES							
RE	34 L	3	D	103	W		
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES		

L6 to L10

L11 to L12

TET + 173.6

TET + 230

150 to 250

275 to 300



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