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			

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

Revision: 26-Mar-15

1 THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT

ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

Series REC 34 L

Vishay Sfernice

Precision Linear Transducers, Conductive Plastic, up to 450 mm



The 34 L is a compact, accurate and adaptable motion

transducer for both industrial and military markets.

FEATURES

- Measurement range 25 mm to 450 mm
- High accuracy ± 1 % down to ± 0.025 %
- Essentially infinite resolution
- Long life
- · Sealed on request
- 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	Professional		
Dimensions	L x 19 mm dia. (with L = TET + 63 mm)		

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 $\geq 100 \text{ mm}$ $\leq \pm 0.025 \%$ for E $\geq 200 \text{ mm}$		
Actual electrical travel (AET)	See table 1		
Ohmic values (R _T)	From 400 Ω /cm to 2 k 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	Minimum 10 ³ x R _T		
Number of tracks	1; on request 2		
Insulation resistance	\geq 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)	Stainles	Stainless steel			
Termination On request		3 wires PTFE AWG-30 L = 300 mm cable or connector			
Wiper	Precious met	Precious metal multifinger			
Sealing	IP65 on request				
PERFORMANCE					

Note				
Mechanical shocks on 3 axes	50 <i>g</i> - 11 ms - half sine			
Sine vibration on 3 axes	1.5 mm peak to peak or 15 <i>g</i> - 10 Hz - 2000 Hz			
Temperature range	-55 °C to +125 °C			
Operating me	25 minior cycles typical/T Hz/T = 20 C \pm 5 C/80 % TET			

For technical questions, contact: sferprecisionpot@vishay.com



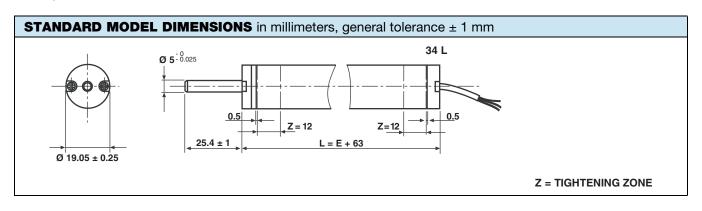


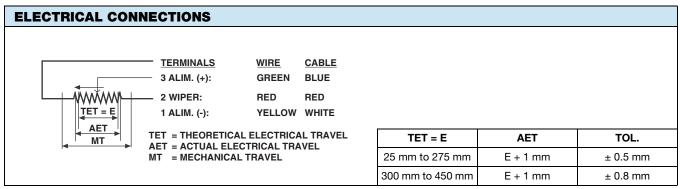
www.vishay.com

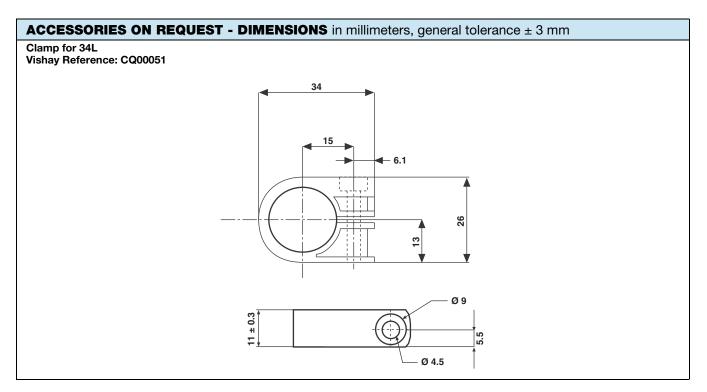
ISHA

Vishay Sfernice

Series REC 34 L







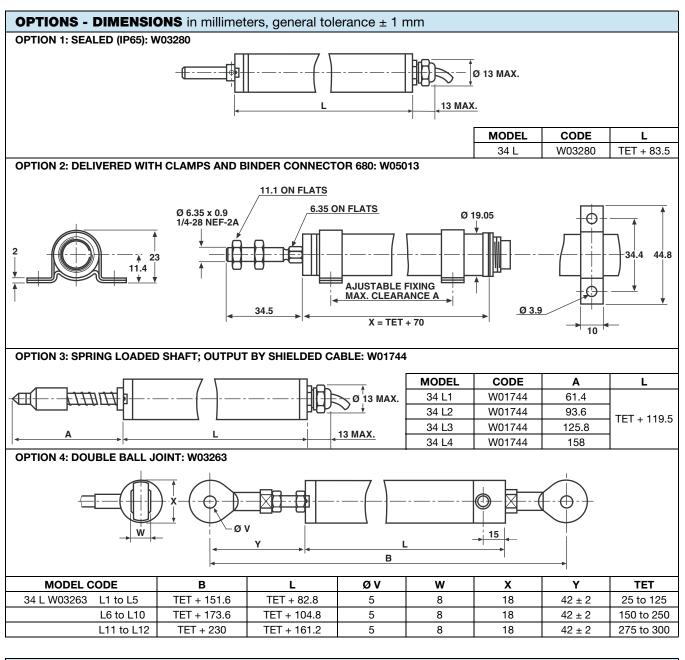
2

www.vishay.com

'ISHA'

Series REC 34 L

Vishay Sfernice



ORDER	ING INFO	DRMATION/D	ESCRIPTION				
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 3 rd digit indicates number of zeros	Special feature code number	

SAP PART NUMBERING GUIDELINES							
RE	34 L	3	D	103	W		
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES		
Revision: 26-Mar-15			3		Document Number: 54019		

Revision: 26-Mar-15

Document Number: 54019

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000



Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Vishay: RE34L2D103W3263 RE34L2A102W5002