

Precision Linear Transducers, Conductive Plastic, up to 150 mm



FEATURES

- Measurement range 12.5 mm to 150 mm
- High accuracy $\pm 1\%$ down to $\pm 0.1\%$
- Long life
- Essentially infinite resolution
- Very small dimension: External diameter = 9.52 mm

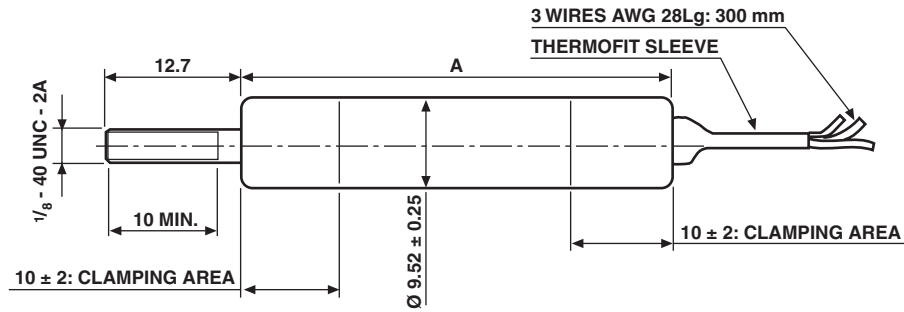


The 38 L is a very compact model especially designed for precise measurement of short travels.

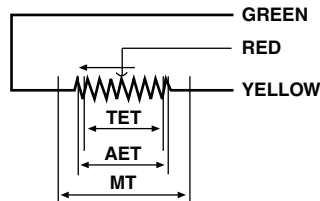
ELECTRICAL SPECIFICATIONS	
Theoretical Electrical Travel (TET)	From 12.5 mm to 150 mm see table 1
Actual Electrical Travel (AET)	$AET = TET + 1 \text{ mm}$
Independent Linearity (over TET)	$\leq \pm 1\%$ - $\leq \pm 0.5\%$ $\leq \pm 0.25\%$ for $E \geq 25 \text{ mm}$ $\leq \pm 0.1\%$ for $E \geq 50 \text{ mm}$
Repeatability	$\leq 0.01\%$
Ohmic Values (R_T)	From $400 \Omega/\text{cm}$ to $2 \text{ k}\Omega/\text{cm}$
Resistance Tolerance at 20°C	$\pm 20\%$
Wiper Current	Recommended: a few μA - 1 mA max. (continuous)
Load Resistance	Minimum $10^3 \times R_T$
Insulation Resistance	$\geq 1000 \text{ M}\Omega$, $500 \text{ V}_{\text{DC}}$
Dielectric Strength	$\geq 500 \text{ V}_{\text{RMS}}$, 50 Hz

MECHANICAL SPECIFICATIONS	
Mechanical Travel (MT)	$MT = TET + 3 \pm 1 \text{ mm}$
Housing	Anodized aluminum
Operating Force	0.35 N typical
Termination	3 wires PTFE AWG 28 length: 300 mm
Wiper	Precious metal multifinger

PERFORMANCE	
Operating Life	25 million cycles typical/ $1 \text{ Hz}/T^\circ = 20^\circ\text{C} \pm 5^\circ\text{C}/80\% \text{ TET}$
Temperature Range	-55°C to $+125^\circ\text{C}$
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

DIMENSIONS in millimeters, general tolerance ± 1 mm

TABLE 1

SIZE	TET	MT	A
38 L0.5	12.5	15.5	43.5
38 L01	25	28	56
38 L02	50	53	81
38 L03	75	78	106
38 L04	100	103	131
38 L05	125	128	156
38 L06	150	153	181

ELECTRICAL CONNECTIONS


TET = THEORETICAL ELECTRICAL TRAVEL
AET = ACTUAL ELECTRICAL TRAVEL
MT = MECHANICAL TRAVEL

ORDERING INFORMATION/DESCRIPTION

REC	38	L	0.5	C	102	W...	e1
SERIES	MODEL	NUMBER OF TRACKS	ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS	LEAD FINISH
		L = 1 track	0.5 = 12.5 mm 1 = 25 mm 2 = 50 mm 3 = 75 mm 4 = 100 mm 5 = 125 mm 6 = 150 mm	A: $\pm 1\%$ B: $\pm 0.5\%$ C: $\pm 0.25\%$ D: $\pm 0.1\%$	First 2 digits are significant numbers 3rd digit indicates number of zeros	Special feature code number	Sn Ag Cu

SAP PART NUMBERING GUIDELINES

RE	38 L	0.5	C	102	W...
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES



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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9