

# Datasheet T101F

Articlenumber 1000940

Halfbridge Transducer with 73.75 mm/Vmm sensitivity and  $\pm 1$  mm measuring stroke, Pretravel adjustable. Spring push. Cable 2 m, cable exit axial.



**Total Stroke, Measuring stroke, Pretravel, Pretravel default setting, Bearing, Lifetime, Tip rotation, Temperatur range, Mounting position, Tip, Bellow, Body diameter, Plug, Cable feature, Cable information**

Total Stroke	4.6 mm
Measuring stroke	$\pm 1.0$ mm
Pretravel	adjustable
Pretravel default setting	- 1.2 mm
Bearing	Ball bearing, no side-play
Lifetime	> 10 Mio. Cycles
Tip rotation	1° over full stroke
Temperatur range	-10 to +65 °C, storage and operation
Mounting position	any
Tip	3 mm tungsten carbide ball, M2.5 fixing thread, exchangeable
Bellow	FPM / FKM
Body diameter	8h6
Plug	5 pin, 240°
Cable feature	PUR shielded, Length 2 m
Cable information	Outer- $\varnothing$ 4.0 mm, drag chain compatible

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## Advance, Lift off, Spring rate, Spring rate information, Spring rate optional

Advance	spring push
Lift off	no
Spring rate	0.63 N
Spring rate information	at electrical zero, tolerance $\pm 20\%$
Spring rate optional	0.16 N - 4.0 N

## Repeatability, Linearity error

Repeatability	0.01 $\mu\text{m}$
Linearity error	0.25% FS (full-scale) $\pm 1000 \mu\text{m}$ range (at 20 °C $\pm 1^\circ\text{C}$ )

## Sensitivity, Setting, Amplifier input load, Supply voltage, Drive frequency, Coil scheme

Sensitivity	73.75 mV/(Vmm)
Setting	1:1
Amplifier input load	2 kOhm Input resistance, $\pm 0.1\%$
Supply voltage	3.0 V $\pm 0.5\%$ RMS
Drive frequency	13.0 kHz $\pm 5\%$
Coil scheme	Halfbridge, TESA® compatible

## Documents information

Documents information	All drawings and 3D models are shown in "electrical zero" position.
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