

Datasheet T502F

Articlenumber 1001816

Halfbridge Transducer with 7.38 mm/Vmm sensitivity and ± 5 mm measuring stroke, Pretravel adjustable. Spring push. Cable 2 m, cable exit radial.



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	10.6 mm
Measuring stroke	± 5.0 mm
Pretravel	adjustable
Pretravel default setting	- 5.5 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	\varnothing 3.0 mm tungsten carbide ball, M2.5 fixing thread, exchangeable
Bellow	FPM
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	1.0 N
Spring rate information	at electrical zero, tolerance $\pm 15\%$
Spring rate optional	1.6 N

Repeatability, Linearity error

Repeatability	0.02 μm
Linearity error	0.8% FS (full-scale) $\pm 5000 \mu\text{m}$ range (at 20 °C $\pm 1^\circ\text{C}$)

Sensitivity, Setting, Optional sensitivity setting, Setting optional, Amplifier input load, Supply voltage, Drive frequency, Coil scheme

Sensitivity	7.38 mV/(Vmm)
Setting	1:10
Optional sensitivity setting	14.76 mV/(Vmm)
Setting optional	1:5
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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