



## Datasheet T523L

Articlenumber 1002057

Halfbridge Transducer with 73.75 mm/Vmm sensitivity,  $\pm 1$  mm measuring stroke and 8 mm overtravel, Pretravel adjustable. Pneumatic push with air gap seal. 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	10.6 mm
Measuring stroke	$\pm 1.0$ mm
Pretravel	adjustable
Pretravel default setting	+ 8.0 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	none, (air gap seal)
Body diameter	$\varnothing$ 8h6
Plug	M16x0.75, 5-pin, DIN45322
Cable feature	PUR shielded, length 2 m
Cable information	Outer- $\varnothing$ 4.0 mm, drag chain compatible





## Datasheet T523L

Articlenumber 1002057



### Advance, Lift off, Pressure Pmax, Pressure P application, Spring rate, Spring rate, Spring rate information

Advance	pneumatic
Lift off	return spring
Pressure Pmax	4.5 bar
Pressure P application	1.7 bar
Spring rate	1.0 N
Spring rate	$F = f(p)$ N
Spring rate information	apx. 1.6 N at 1.7 bar / apx. 1.0 N at 1.3 bar (at el. zero)

### Repeatability, Linearity error

Repeatability	0.02 $\mu$ m
Linearity error	0.25% FS (full-scale) $\pm$ 1000 $\mu$ m range (at 20 °C $\pm$ 1°C)

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

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

### Documents information

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

