

Datasheet T102L

Articlenumber 1001151

Halfbridge Transducer with 73.75 mm/Vmm sensitivity and ± 1 mm measuring stroke, Pretravel adjustable. Pneumatic push with air gap seal. 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	4.6 mm
Measuring stroke	± 1.0 mm
Pretravel	adjustable
Pretravel default setting	+ 2.8 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	none, (air gap seal)
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, Pressure Pmax, Pressure P application, Spring rate, Spring rate information

Advance	pneumatic
Lift off	return spring
Pressure Pmax	4.5 bar
Pressure P application	1.1 bar
Spring rate	$F = f(p)$ N
Spring rate information	apx. 1.0 N at 1.1 bar / apx. 0.6 N at 0.8 bar (at el. zero)

Repeatability, Linearity error

Repeatability	0.01 μ m
Linearity error	0.25% FS (full-scale) \pm 1000 μ m range (at 20 °C \pm 1°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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TECHNOLOGY LTD.



Innovative Measurement Technology Ltd

Unit 3E Vinnetrow Business Park
Vinnetrow Road, Chichester
West Sussex PO20 1QH
United Kingdom

E-mail: sales@imeasure.co.uk
E-mail: support@imeasure.co.uk
Tel: +44 (0) 1243 942010

www.innovative-measurement-technology.co.uk

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