

# Datasheet 1P0

Articlenumber 1000031

Halfbridge Transducer 73.75 mV/Vmm sensitivity and  $\pm 0.40$  mm measuring stroke. Cable 2 m, cable exit radial.  
(ex Machsize and Nairda)



## 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	1.2 mm
Measuring stroke	$\pm 0.40$ mm
Pretravel	not adjustable
Pretravel default setting	- 0.45 mm
Bearing	Ball bearing, no side-play
Lifetime	> 10 Mio. Cycles
Tip rotation	1.5° over full stroke
Temperatur range	-10 to +65 °C, storage and operation
Mounting position	any
Tip	4 mm tungsten carbide ball
Bellow	Nitril
Body diameter	5h6
Plug	5 pin, 240°
Cable feature	PUR shielded, Length 2 m
Cable information	Outer- $\varnothing$ 2.0 mm, drag chain compatible

## Advance, Spring rate, Spring rate information

Advance	spring push
Spring rate	0.78 N
Spring rate information	at electrical zero, tolerance $\pm 20\%$

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## Repeatability, Linearity error

Repeatability	0.02 $\mu\text{m}$
Linearity error	1.25% FS (full-scale) $\pm$ 400 $\mu\text{m}$ range (at 20 °C $\pm$ 1°C)

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

Sensitivity	73.75 mV/(Vmm)
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.
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