



Datasheet T301V

Articlenumber 1001580

Halfbridge Transducer with 36.88 mm/Vmm sensitivity and ± 2 mm measuring stroke, Pretravel adjustable. Vacuum retract. 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

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|---------------------------|--|
| Total Stroke | 4.6 mm |
| Measuring stroke | ± 2.0 mm |
| Pretravel | adjustable |
| Pretravel default setting | - 2.25 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 | Ø 3.0 mm tungsten carbide ball, M2.5 fixing thread, exchangeable |
| Bellow | FPM |
| Body diameter | Ø 8h6 |
| Plug | M16x0.75, 5-pin, DIN45322 |
| Cable feature | PUR shielded, length 2 m |
| Cable information | Outer- Ø 4.0 mm, drag chain compatible |





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

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|-------------------------|--|
| Advance | spring push |
| Lift off | vacuum |
| Spring rate | 0.63 N |
| Spring rate information | at electrical zero, tolerance $\pm 20\%$ |
| Spring rate optional | 0.16 N - 1.0 N |

Repeatability, Linearity error

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|-----------------|---|
| Repeatability | 0.01 μm |
| Linearity error | 0.4% FS (full-scale) $\pm 2000 \mu\text{m}$ range (at 20 °C $\pm 1^\circ\text{C}$) |

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

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|----------------------|--------------------------------------|
| Sensitivity | 36.88 mV/(Vmm) |
| Setting | 1:2 |
| 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

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