



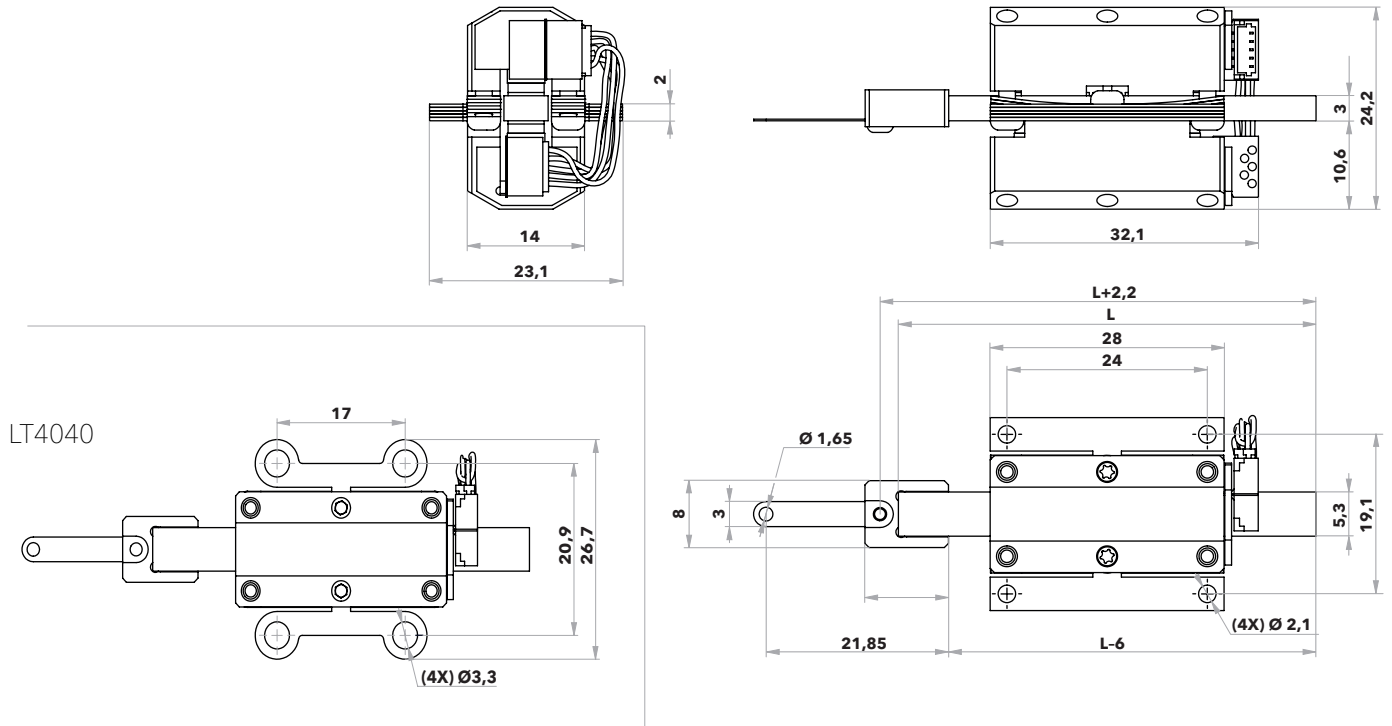
Technical specification LT40

| Type | Standard (A) | Non-magnetic (C) | Non-magnetic vacuum (D) |
|---|--------------------------------------|-------------------|--------------------------------------|
| Stroke (mm) For more information, see table on opposite page. | | 0-67 | |
| Speed range (mm/s) @ Rhomb, no load, 20°C | | 0-12 | |
| Step length, full step (µm) @ Delta, no load, 20°C | | 5 | |
| Motor resolution, microstep (nm) 14 bits, 8192 microsteps | | <1 | |
| Built-in encoder | | No | |
| Encoder resolution (µm) | | N/A | |
| Stall force (N) | | 40 | |
| Holding force (N) | | >40 | |
| Recommended operating range (N) | | 0-20 | |
| Operating voltage (V) | | 42-48 | |
| Power consumption (mW/Hz) | | 20 | |
| Operating temperature (°C) | | -20 to +70 | |
| Mechanical size L x H x D (mm) | 32.1 x 24.2 x 23.1 (26.7 for LT4040) | | |
| Weight (g) | 61 (with 50 mm drive rod) | | |
| Vacuum (torr) | N/A | N/A | 10 ⁻⁷ |
| Connector | JST BM05B-SRSS-TB | JST BM05B-SRSS-TB | Soldered cable w. 2 x JST 05SR-3S |
| Material in motor housing | Stainless steel | Non-magnetic | Non-magnetic |

Note: All specifications are subject to change without notice. For more information, see www.piezomotor.com.

Main dimensions

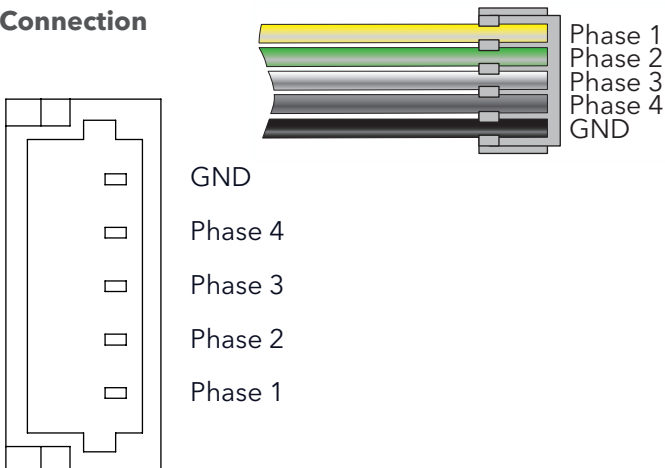
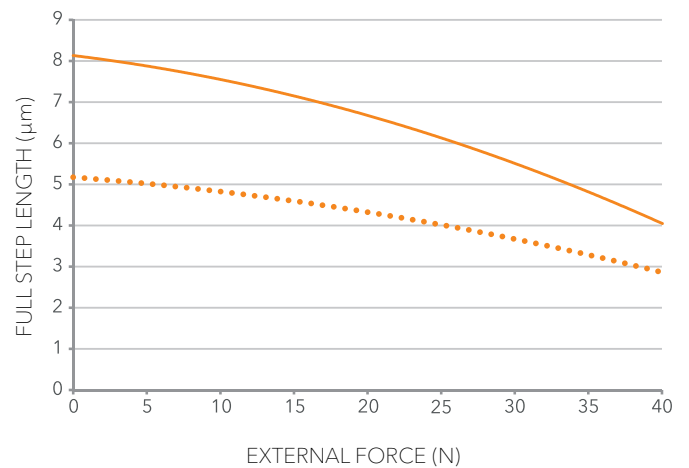
LT4050A / LT4050C – Standard and non-magnetic


Stroke range

| Stroke (mm) with one adapter | Drive rod length (mm) |
|---------------------------------|-----------------------|
| 0-6 | 40 |
| 0-16 | 50 |
| 0-26 | 60 |
| 0-67 | 100.8 |

Motor speed at 20°C, no load

| Waveform | Max freq. (Hz) | Speed range (mm/s) |
|----------|----------------|--------------------|
| Delta | 1500 | 0-8 |
| Rhomb | | 0-12 |

Connection

Motor performance


Motor performance with waveform Rhomb (filled) and waveform Delta (dotted). The full step length is the average distance the drive rod moves when the legs take one full step (i.e. for one waveform cycle).

Note: A standard deviation σ of 0.5 μm should be taken into account. Typical values are given for 20°C.