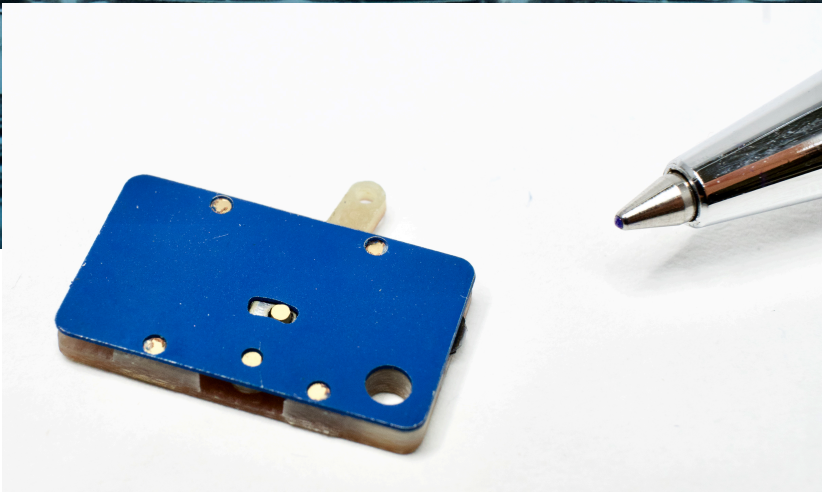


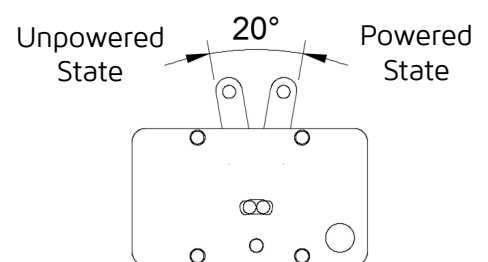
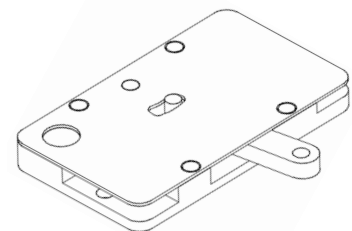
TA0301 Tilt-Actuator

The memetis ultraflat Tilt-Actuator with low power consumption and noiseless switching enables new applications in miniaturized systems. With its flat design and high stroke it enables new possibilities. Thanks to its continuous movement, it can be used for both fast shifting and slow cosmetic tilting.

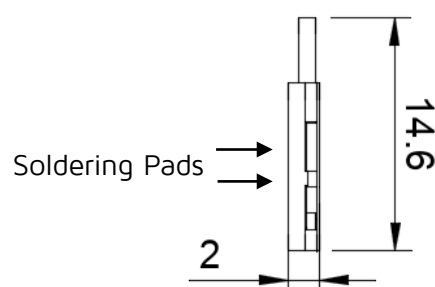
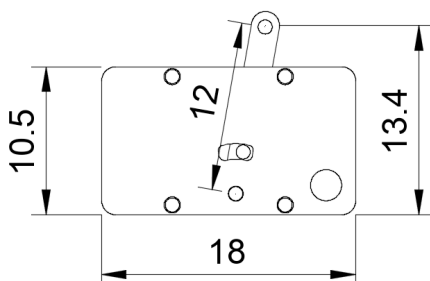


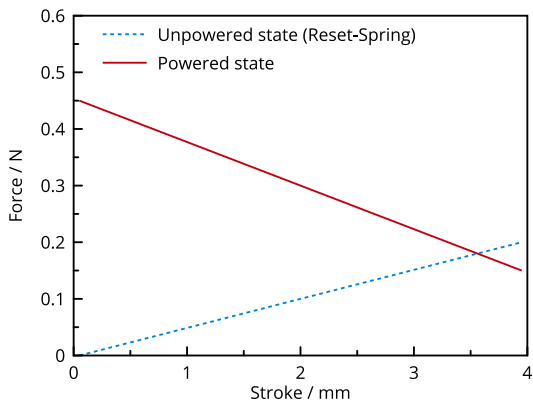
Specifications

Parameter	Value
Functionality	Tilt-Actuator (monostable, 20°)
Dimensions (LxWxH)	18 x 14.6 x 2 mm ³
Weight	0.7 g
Stroke (at end of lever)	4 mm
Force (0 to 4 mm stroke)	0.45 to 0.1 N
Torque	5.4 to 1.2 Nmm
Lifetime	>50 000 cycles
Switching time: on / off	0.2 to 3 s / 2 s
Temperature range	10 – 50 °C
Power consumption	1.9 W pulse for 0.2s (for fast switching), 0.2 W (static)
Nominal current	1.2 A (max. 0.2 s), 0.3 A (static)
Electrical connections	Soldering pads

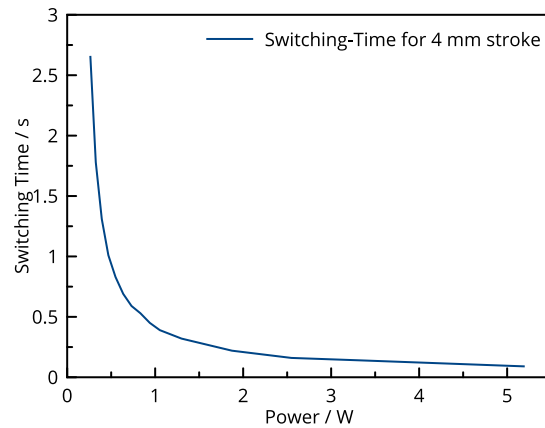


Drawings





Graph 1: Force vs. extension stroke of actuator in powered and unpowered state.



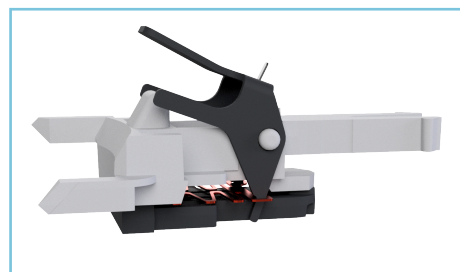
Graph 2: Switching-time to reach 4 mm stroke vs. electrical heating-power. Switching time (on) can be decreased by increasing electrical heating power

For **custom designs** (different stroke/force) contact us directly via email to contact@memetis.com

Complementary memetis products



In-plane Actuator (IP0102), most compact pull-actuator with 1 mm stroke (3.5 mm x 9 mm x 14 mm)



memetis offers customer-specific **actuator systems** to enable new and innovative products.

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