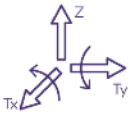
Mirrors Series

Fast Steering Mirror

Dynamic, Robust, Compact

		Short Range
1 Axis		Mirrors.Z12 12 µm
2 Axes	Tx Ty	Mirrors.TxTy0303 ±1.5 mrad, ±1.5 mrad
3 Axes		Mirrors.Z12TxTy0101 12 µm, 1 mrad, 1 mrad

* Non-magnetic, Ultra High Vacuum Versions available

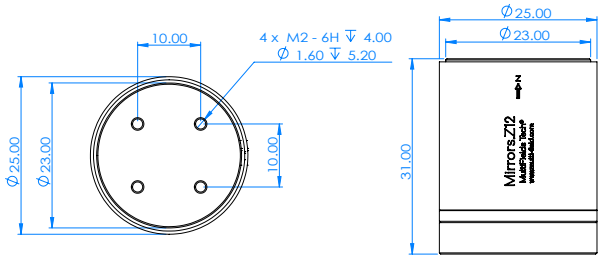
Piezo FSM — Mirrors.Z12

High Dynamic Motion for Beam Steering, Phase Turning

➡ Feature

- Piezo Stack Driving
- Sub-nanometer Resolution
- Flexure Guiding
- ms Response Time
- SGS sensor, Close-loop

➡ Photo & Drawing



➡ Specification

		Mirrors.Z12
1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;
2	Motion Direction	Z
3	Footprint × Height	Φ25 × 31 mm
4	Material	Stainless Steel
5	Travel Range(Open-loop)	15 μm
6	Travel Range(Close-loop)	12 μm
7	Resolution (Close-loop)	0.2 nm
8	Linearity	0.1%
9	Stiffness	40 N/μm
10	Resonant Frequency	4 kHz
11	Max. Payload	200 g
12	Sensor Type	SGS
13	Driving Voltage	Max. 150 V
14	Working Temperature	15 ~ 40 °C
15	Cable	D-Sub 3W3
16	Mass	40 g
17	Controller	MC-Archimedes.N

* For detail drawing and 3D model please contact us.

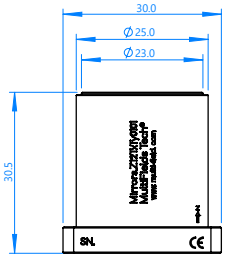
Piezo FSM — Mirrors.Z12TxTy0101

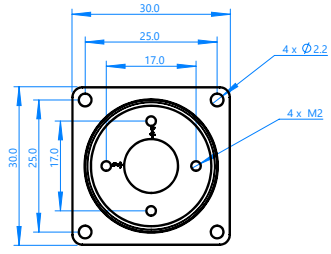
High Dynamic Motion for Beam Steering, Z, Tip and Tilt

➡ Feature

- •Piezo Stack Driving
- • Clear Aperture
- • ms Response Time
- • Flexure Guiding
- • Sub–nanometer Resolution
- • SGS sensor, Close–loop
- • Tripod Structure

➡ Photo & Drawing





➡ Specification		Mirrors.Z12TxTy0101
1	Optional	.NM, Non–magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;
2	Motion Direction	Z, Tx & Ty
3	Footprint × Height	30 × 30 mm
4	Material	Aluminum, Stainless Steel
5	Travel Range (Close–loop Z / Tx / Ty)	12 μm / 1 mrad / 1mrad
6	Resolution (Open–loop Z / Tx / Ty)	0.2 nm / 0.05 μrad / 0.05 μrad
7	Resolution (Close–loop Z / Tx / Ty)	0.4 nm / 0.1 μrad / 0.1 μrad
8	Linearity(Z / Tx /Ty)	0.2%
9	Resonant Frequency	5.5 kHz
10	Stiffness	10 N/μm
11	Sensor Type	SGS
12	Driving Voltage	Max. 150 V
13	Working Temperature	– 20 ~ 80 ˚C
14	Cable	D–Sub 3W3
15	Controller	MC–Archimedes.N

* For detail drawing and 3D model please contact us.