

# ANSxy50/UHV xy-Scanner made from Titanium

1000543

## Technical Specifications

|   |                                   |
|---|-----------------------------------|
| <b>Size and Dimensions</b>                |                                   |
| footprint; height                         | 15 mm x 15 mm; 7 mm               |
| maximum installation space                | 15 mm x 15 mm; 7 mm               |
| weight                                    | 7 g                               |
| <b>Materials</b>                          |                                   |
| positioner body                           | titanium                          |
| actuator                                  | PZT ceramics                      |
| connecting wires                          | insulated twisted pair, copper    |
| <b>Fine Positioning Mode</b>              |                                   |
| fine linear positioning range @ 300 K     | 30 x 30 $\mu\text{m}$             |
| fine linear positioning range @ 4 K       | 15 x 15 $\mu\text{m}$             |
| fine positioning resolution               | sub-nm                            |
| typical actuator capacitance fine @ 300 K | 1.1 $\mu\text{F}$                 |
| input DC voltage range @ 300 K            | 0 - 60 V                          |
| *   | scan range depends on environment |
| <b>Load (@ ambient conditions)</b>        |                                   |
| maximum load                              | 50 g                              |
| <b>General Specifications</b>             |                                   |
| environment                               | /UHV                              |

