

# ANR51/RES/UHV - rotator (360° endless)

1003294

## Technical Specifications

| Size and Dimensions                    |                                |
|----------------------------------------|--------------------------------|
| footprint; height                      | 15 mm x 15 mm; 9.5 mm          |
| weight                                 | 10 g                           |
| height                                 | 9.5 mm                         |
| cable                                  | 30 cm cable with connector     |
| Materials                              |                                |
| positioner body                        | titanium                       |
| actuator                               | PZT ceramics                   |
| connecting wires                       | insulated twisted pair, copper |
| Coarse Positioning Mode                |                                |
| travel range (step mode)               | 360 ° endless                  |
| maximum drive velocity @ 300 K         | ~ 10 °/s                       |
| input voltage range                    | 0 - 60 V                       |
| Fine Positioning Mode                  |                                |
| fine angular positioning range @ 300 K | 40 m°                          |
| fine positioning resolution            | μ°                             |
| input DC voltage range @ 300 K         | 0 - 60 V                       |
| Position Encoder                       |                                |
| readout mechanism                      | resistive sensor               |
| encoded travel range                   | 315°                           |
| sensor resolution                      | ~ 6 m°                         |
| sensor power (when measuring)          | 0.01 - 1 mW                    |
| repeatability                          | 50 m° (unidirectional)         |
| Load (@ ambient conditions)            |                                |
| maximum load                           | 30 g                           |
| maximum dynamic torque around axis     | 0.2 Ncm                        |
| General Specifications                 |                                |
| environment                            | /UHV                           |

