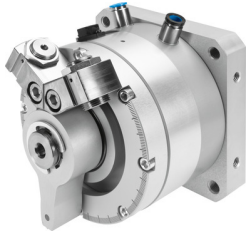


Rotary actuator DSMI-63-270-A-B

Part number: 1202485

FESTO



Data sheet

| Feature | Value |
|---|--|
| Adjustment range of swivel angle | 0 deg ... 270 deg |
| Stroke reduction in the end positions | 5 ° |
| Shortest positioning stroke | 5° when positioning 15° for Soft Stop |
| Piston diameter | 63 mm |
| Swivel angle | 0 deg ... 272 deg |
| Type code | DSMI |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Mounting position, positioning | Any |
| Mounting position, Soft Stop | Horizontal |
| Measuring principle of linear potentiometer | Analog |
| Design | Drive shaft on ball bearings Rotary vane |
| Position sensing | For proximity sensor With integrated angle measurement system |
| Operating pressure for positioning/soft stop | 4 bar ... 8 bar |
| Max. swivel frequency at 6 bar | 1 Hz |
| Max. travel speed | 2000 deg/s |
| Min. travel speed | 50 deg/s |
| Typical positioning time, short-stroke, horizontal | 0.36/0.55 s |
| Typical positioning time, long stroke, horizontal | 0.64/1 s |
| Connection resistance | 5 kOhm |
| Recommended contact current | <1 µA |
| Mode of operation | Double-acting |
| Max. operating voltage DC | 42 V |
| Max. short-time slider current | 10000 µA |
| Max. current consumption | 4 mA |
| Nominal operating voltage DC | 10 V |
| Connection resistance tolerance | 20 % |
| Permissible voltage fluctuations | < 1 % |
| Operating medium | Compressed air as per ISO 8573-1:2010 [6:4:4] |
| Information on operating and pilot media | Operation with oil lubrication not possible |
| CE marking (see declaration of conformity) | As per EU EMC directive |
| Continuous shock resistance to DIN/IEC 68 Part 2-82 | Tested as per severity level 2 |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| Degree of protection | IP65 as per IEC 60529 |

| Feature | Value |
|--|---|
| Vibration resistance to DIN/IEC 68 Part 2-6 | Tested as per severity level 2 |
| Ambient temperature | -10 °C ... 60 °C |
| Impact energy in the end positions | 0.1 J |
| Max. axial force | 500 N |
| Max. mass moment of inertia, horizontal | 0.6 kgm ² |
| Max. mass moment of inertia, vertical | 0.6 kgm ² |
| Max. radial force | 500 N |
| Min. mass moment of inertia, horizontal | 0.03 kgm ² |
| Min. mass moment of inertia, vertical | 0.03 kgm ² |
| Theoretical torque at 6 bar | 40 Nm |
| Product weight | 6900 g |
| Angular resolution | ≤0.1 deg |
| Output signal | Analog |
| Independent linearity | 0.0025 |
| Positioning repetition accuracy | +/- 0.3 deg |
| Soft Stop end position repetition accuracy | < 0.2 deg |
| Repetition accuracy, Soft Stop intermediate position | +/- 2 deg |
| Linear potentiometer electrical connection | 4-pin |
| Cable length | 30 m |
| Type of mounting | With internal thread |
| Pneumatic connection | G1/4 |
| Material of measuring system housing | Wrought aluminum alloy Anodized |
| Note on materials | Free of copper and PTFE RoHS-compliant |
| Stop lever material | Wrought aluminum alloy Anodized |
| Drive shaft material | Steel Nickel-plated |
| (Fixed) stop material | Steel |
| Housing material | Wrought aluminum alloy Anodized |
| Measuring system coupling material | NBR |
| Feather key material | Steel |
| Vane material | PET-reinforced |
| Material of plug housing | PA-reinforced |
| Material of cylinder barrel | Wrought aluminum alloy |