

# Semi-rotary drive DSM-16-270-P-A-B

Part number: 547574

FESTO



## Data sheet

| Feature                                          | Value                                        |
|--------------------------------------------------|----------------------------------------------|
| Size                                             | 16                                           |
| Cushioning angle                                 | 1.4 deg                                      |
| Rotation angle adjustment range                  | 0 deg...270 deg                              |
| Swivel angle                                     | 0 deg...270 deg                              |
| Cushioning                                       | Elastic cushioning rings/plates at both ends |
| Mounting position                                | optional                                     |
| Fine adjustment                                  | -6 deg                                       |
| Mode of operation                                | Double-acting                                |
| Design                                           | Vane                                         |
| Position detection                               | Via proximity switch                         |
| Operating pressure                               | 0.18 MPa...1 MPa<br>1.8 bar...10 bar         |
| Max. swivel frequency at 0.6 MPa (6 bar, 87 psi) | 2 Hz                                         |
| Operating medium                                 | Compressed air to ISO 8573-1:2010 [7:-:-]    |
| Corrosion resistance class CRC                   | 0 - No corrosion stress                      |
| LABS (PWIS) conformity                           | VDMA24364-B1/B2-L                            |
| Cleanroom class                                  | Class 6 according to ISO 14644-1             |
| Ambient temperature                              | -10 °C...60 °C                               |
| Max. axial force                                 | 30 N                                         |
| Max. radial force                                | 75 N                                         |
| Theoretical torque at 0.6 MPa (6 bar, 87 psi)    | 2.5 Nm                                       |
| Permissible mass moment of inertia               | 0.01 kgm <sup>2</sup>                        |
| Product weight                                   | 470 g                                        |
| Type of mounting                                 | Via female thread                            |
| Pneumatic connection                             | M5                                           |
| Note on materials                                | RoHS-compliant                               |
| Material drive shaft                             | Steel<br>Nickel-plated                       |
| Material seals                                   | TPE-U(PU)                                    |
| Material housing                                 | Wrought aluminium alloy                      |