

swivel/linear unit

DSL-25-80-270-P-A-S20-B

Part number: 556483

FESTO

For proximity sensing. Rotary and linear movement can be actuated independently of one another. Rotary movement of 0° - 270° infinitely adjustable.



Data sheet

| Feature | Value |
|----------------------------------------------------------|-----------------------------------------------------------------------------|
| Rotation angle adjustment range | 0 ... 270 deg |
| Stroke | 80 mm |
| Piston diameter | 25 mm |
| Swivel angle | 0 ... 272 deg |
| Cushioning | P: Flexible cushioning rings/plates at both ends |
| Assembly position | Any |
| Fine adjustment | -6 deg |
| Mode of operation | double-acting |
| Design structure | Rotary vane |
| Position detection | For proximity sensor |
| Variants | Through, hollow piston rod |
| Protection against torque/guide | with plain-bearing guide |
| Operating pressure | 2.5 ... 8 bar |
| Max. impact speed | 500 mm/s |
| Max. swivel frequency at 0.6 MPa (6 bar, 87 psi) | 2 Hz |
| Swivel angle backlash | 2 deg |
| Repetition accuracy | 1 deg |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC | 1 - Low corrosion stress |
| PWIS conformity | VDMA24364-B2-L |
| Ambient temperature | -10 ... 60 °C |
| Dynamic load torque | 0.45 Nm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 173.5 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 246 N |
| Theoretical torque at 0.6 MPa (6 bar, 87 psi) | 5 Nm |
| Permissible mass moment of inertia | 0.00011 kgm ² |
| Product weight | 1,500 g |
| Basic weight for 0 mm stroke | 1,500 g |
| Additional weight per 10 mm stroke | 67 g |
| Mounting type | Clamped in T-slot with external (male) thread Optional |
| Pneumatic connection | M5 |
| Material cover | Wrought Aluminium alloy Anodised |
| Material seals | TPE-U(PU) |
| Material housing | Wrought Aluminium alloy Smooth anodised |
| Material piston rod | Heat-treatment steel |