

Swivel/linear unit

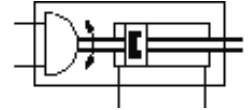
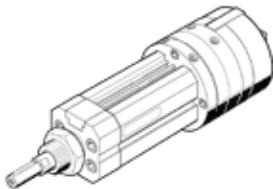
DSL-16-50-270-P-S20-FF

Part number: 159546

FESTO

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

The maximum rotary angle play at the piston rod is 2°. When mounting additional components on the drive shaft, never exceed the maximum permitted tightening torque of 48.4 in lb / 5.5 Nm.



Data sheet

| Feature | Value |
|--|--|
| Cushioning angle | 2.6 deg |
| Rotation angle adjustment range | 270 deg |
| Stroke | 50 mm |
| Piston diameter | 16 mm |
| Swivel angle | 272 deg |
| Cushioning | P: Flexible cushioning rings/plates at both ends |
| Assembly position | Any |
| Fine adjustment | 5 deg |
| Mode of operation | double-acting |
| Design structure | Rotary vane |
| Position detection | For inductive sensors For proximity sensor |
| Variants | S20: 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 6 bar | 2 Hz |
| Operating medium | Dried compressed air, lubricated or unlubricated |
| Ambient temperature | -10 ... 60 °C |
| Cushioning length | 4.5 mm |
| Torque at 6 bar | 1.25 Nm |
| Theoretical force at 6 bar, return stroke | 73.5 N |
| Theoretical force at 6 bar, advance stroke | 102.5 N |
| Permissible mass moment of inertia | 0.000035 kgm ² |
| Additional weight per 10 mm stroke | 33 g |
| Basic weight for 0 mm stroke | 650 g |
| Product weight | 650 g |
| Mounting type | Clamped in T-slot with external (male) thread Optional |
| Pneumatic connection | M5 |
| Materials information for cover | Wrought Aluminum alloy Anodized |
| Materials information for seals | TPE-U(PU) |
| Materials information, housing | Wrought Aluminum alloy Smooth anodized |
| Materials information for piston rod | Heat-treatment steel |