

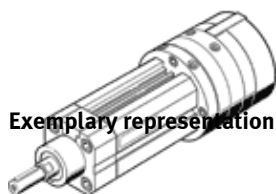
# Swivel/linear unit

## DSL-20- -270-P-S20-FF-KF

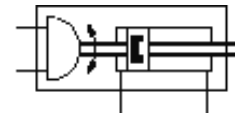
Part number: 177205

FESTO

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



Exemplary representation



## Data sheet

| Feature                                    | Value  |
|--|--|
| Cushioning angle                           | 2.1 deg  |
| Rotation angle adjustment range            | 270 deg  |
| Stroke                                     | 10 ... 100 mm  |
| Piston diameter                            | 20 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<br>For proximity sensor                |
| Variants                                   | S20: through, hollow piston rod                              |
| Protection against torque/guide            | with ball-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                          | 5 mm   |
| Torque at 6 bar                            | 2.5 Nm   |
| Theoretical force at 6 bar, return stroke  | 120.5 N  |
| Theoretical force at 6 bar, advance stroke | 158 N  |
| Permissible mass moment of inertia         | 0.00007 kgm <sup>2</sup>                                     |
| Additional weight per 10 mm stroke         | 52 g   |
| Basic weight for 0 mm stroke               | 1,140 g  |
| Product weight                             | 1,140 g  |
| Mounting type                              | Clamped in T-slot<br>with external (male) thread<br>Optional |
| Pneumatic connection                       | M5   |
| Materials information for cover            | Wrought Aluminium alloy                                      |
| Materials information for seals            | TPE-U(PU)  |
| Materials information, housing             | Wrought Aluminium alloy                                      |
| Materials information for piston rod       | Heat-treatment steel   |