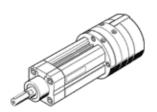
## Swivel/linear unit DSL-40-50-270-P-S2-CC

Part number: 175882

**FESTO** 

For proximity sensing. Rotary and linear movement can be actuated simultaneously or independently of one another. Rotary movement of  $0^{\circ}$  - 270° infinitely adjustable.

The maximum rotary angle play at the piston rod is  $2^\circ$ . 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                           | 15 deg   |
| Rotation angle adjustment range            | 270 deg  |
| Stroke                                     | 50 mm  |
| Piston diameter                            | 40 mm  |
| Swivel angle                               | 240 deg  |
| Cushioning                                 | CC: Shock absorber at both ends                  |
|  | P: Flexible cushioning rings/plates at both ends |
| Assembly position                          | Any  |
| Fine adjustment                            | 1.5 deg  |
| Mode of operation                          | double-acting                                    |
| Design structure                           | Rotary vane                                      |
| Position detection                         | For inductive sensors                            |
|  | For proximity sensor                             |
| Variants                                   | S2: through 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             | 0.7 Hz   |
| Operating medium                           | Dried compressed air, lubricated or unlubricated |
| Ambient temperature                        | -10 60 °C  |
| Cushioning length                          | 12 mm  |
| Torque at 6 bar                            | 20 Nm  |
| Theoretical force at 6 bar, return stroke  | 495 N  |
| Theoretical force at 6 bar, advance stroke | 660 N  |
| Permissible mass moment of inertia         | 0.004 kgm2                                       |
| Additional weight per 10 mm stroke         | 170 g  |
| Basic weight for 0 mm stroke               | 5,200 g  |
| Product weight                             | 5,200 g  |
| Mounting type                              | Clamped in T-slot                                |
|  | with external (male) thread                      |
|  | Optional   |
| Pneumatic connection                       | G1/8   |
| 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                             |