

# Swivel/linear unit DSL-20- -270-CC-A-S20-B

Part number: 556460

**FESTO**



## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Cushioning angle                                             | 12 deg                                                                                     |
| Rotation angle adjustment range                              | 0 deg...246 deg                                                                            |
| Stroke                                                       | 10 mm...160 mm                                                                             |
| Piston diameter                                              | 20 mm                                                                                      |
| Swivel angle                                                 | 0 deg...246 deg                                                                            |
| Cushioning                                                   | Shock absorber at both ends<br>Elastic cushioning rings/plates at both ends                |
| Mounting position                                            | optional                                                                                   |
| Fine adjustment                                              | -3 deg                                                                                     |
| Mode of operation                                            | Double-acting                                                                              |
| Design                                                       | Vane                                                                                       |
| Position detection                                           | Via proximity switch                                                                       |
| Variants                                                     | Through, hollow piston rod                                                                 |
| Protection against torque/guide                              | With plain-bearing guide                                                                   |
| Operating pressure                                           | 2.5 bar...8 bar                                                                            |
| Max. impact speed                                            | 500 mm/s                                                                                   |
| Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)             | 1 Hz                                                                                       |
| Rotary angle backlash                                        | 2 deg                                                                                      |
| Repetition accuracy                                          | 0.1 deg                                                                                    |
| Operating medium                                             | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 1 - Low corrosion stress                                                                   |
| LABS (PWIS) conformity                                       | VDMA24364-B2-L                                                                             |
| Ambient temperature                                          | -10 °C...60 °C                                                                             |
| Dynamic load torque                                          | 0.2 Nm                                                                                     |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 120.5 N                                                                                    |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 159 N                                                                                      |
| Theoretical torque at 0.6 MPa (6 bar, 87 psi)                | 2.5 Nm                                                                                     |
| Permissible mass moment of inertia                           | 0.0012 kgm <sup>2</sup>                                                                    |
| Product weight                                               | 1130 g                                                                                     |
| Basic weight for 0 mm stroke                                 | 1130 g                                                                                     |

| Feature                            | Value                                           |
|------------------------------------|-------------------------------------------------|
| Additional weight per 10 mm stroke | 52 g                                            |
| Type of mounting                   | Either:<br>Clamped in T-slot<br>Via male thread |
| Pneumatic connection               | M5                                              |
| Material cover                     | Wrought aluminium alloy<br>Anodised             |
| Material seals                     | TPE-U(PU)                                       |
| Material housing                   | Wrought aluminium alloy<br>Smooth anodised      |
| Material piston rod                | Tempered steel                                  |