

# Mini slide DGSL-20-100-PA

Part number: 544011

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                       | 100 mm                                                                                     |
| Adjustable end position range/length front                   | 94.5 mm                                                                                    |
| Adjustable end position range/length rear                    | 49.5 mm                                                                                    |
| Piston diameter                                              | 25 mm                                                                                      |
| Operating mode, drive unit                                   | Yoke                                                                                       |
| Cushioning                                                   | Elastic cushioning rings/plates at both ends                                               |
| Mounting position                                            | optional                                                                                   |
| Guide                                                        | Ball bearing cage guide                                                                    |
| Design                                                       | Yoke<br>Piston<br>Piston rod<br>Slide                                                      |
| Position detection                                           | Via proximity switch                                                                       |
| Symbol                                                       | 00991263                                                                                   |
| Operating pressure                                           | 0.1 MPa ... 0.8 MPa                                                                        |
| Operating pressure                                           | 1 bar ... 8 bar                                                                            |
| Max. speed                                                   | 0.8 m/s                                                                                    |
| Repetition accuracy                                          | 0.3 mm                                                                                     |
| Mode of operation                                            | Double-acting                                                                              |
| 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                               | 0 - No corrosion stress                                                                    |
| LABS (PWIS) conformity                                       | VDMA24364-B1/B2-L                                                                          |
| Ambient temperature                                          | 0 °C ... 60 °C                                                                             |
| Impact energy in end positions                               | 0.45 J                                                                                     |
| Cushioning length                                            | 1.2 mm                                                                                     |
| Max. force F <sub>y</sub>                                    | 4200 N                                                                                     |
| Max. force F <sub>z</sub>                                    | 4200 N                                                                                     |
| Max. moment M <sub>x</sub>                                   | 85 Nm                                                                                      |
| Max. moment M <sub>y</sub>                                   | 80 Nm                                                                                      |
| Max. moment M <sub>z</sub>                                   | 80 Nm                                                                                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 247 N                                                                                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 295 N                                                                                      |
| Moving mass                                                  | 1254 g                                                                                     |
| Product weight                                               | 3085 g                                                                                     |
| alternative connections                                      | See product drawing                                                                        |

| Feature              | Value                      |
|----------------------|----------------------------|
| Type of mounting     | With through-hole          |
| Pneumatic connection | G1/8                       |
| Note on materials    | RoHS-compliant             |
| Material cover       | Wrought aluminium alloy    |
| Material seals       | HNBR                       |
| Material housing     | Wrought aluminium alloy    |
| Material piston rod  | High-alloy stainless steel |