

# Mini slide DGSL-10-100-P1A

Part number: 543955

FESTO



## Data sheet

| Feature                                                     | Value                                                                                      |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                      | 100 mm                                                                                     |
| Adjustable end position range/length front                  | 75.5 mm                                                                                    |
| Adjustable end position range/length rear                   | 20 mm                                                                                      |
| Piston diameter                                             | 12 mm                                                                                      |
| Operating mode, drive unit                                  | Yoke                                                                                       |
| Cushioning                                                  | Elastic cushioning rings/pads at both ends with fixed stop                                 |
| Mounting position                                           | optional                                                                                   |
| Guide                                                       | Ball bearing cage guide                                                                    |
| Design                                                      | Yoke<br>Piston<br>Piston rod<br>Slide                                                      |
| Position detection                                          | Via proximity switch                                                                       |
| Operating pressure                                          | 0.15 MPa...0.8 MPa<br>1.5 bar...8 bar                                                      |
| Max. speed                                                  | 0.8 m/s                                                                                    |
| Repetition accuracy                                         | ±0.01 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                                                                          |
| Cleanroom suitability, measured according to ISO 14644-14   | Class 7 according to ISO 14644-1                                                           |
| Ambient temperature                                         | 0 °C...60 °C                                                                               |
| Impact energy in end positions                              | 0.04 Nm                                                                                    |
| Cushioning length                                           | 3.4 mm                                                                                     |
| Max. force F <sub>y</sub>                                   | 1250 N                                                                                     |
| Max. force F <sub>z</sub>                                   | 1250 N                                                                                     |
| Max. moment M <sub>x</sub>                                  | 18 Nm                                                                                      |
| Max. moment M <sub>y</sub>                                  | 12 Nm                                                                                      |
| Max. moment M <sub>z</sub>                                  | 12 Nm                                                                                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 51 N                                                                                       |

| Feature                                                      | Value                      |
|--------------------------------------------------------------|----------------------------|
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 68 N                       |
| Moving mass                                                  | 334 g                      |
| Product weight                                               | 837 g                      |
| alternative connections                                      | See product drawing        |
| Type of mounting                                             | With through-hole          |
| Pneumatic connection                                         | M5                         |
| 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 |