

# Mini slide DGST-10-50-Y12A

Part number: 8085168

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                    | Value                                                              |
|--------------------------------------------|--------------------------------------------------------------------|
| Stroke                                     | 50 mm                                                              |
| Adjustable end-position range/front length | 16.2 mm                                                            |
| Adjustable end-position range/rear length  | 14.5 mm                                                            |
| Piston diameter                            | 10 mm                                                              |
| Drive unit operating mode                  | Yoke                                                               |
| Cushioning                                 | External hydraulic cushioning                                      |
| Mounting position                          | Any                                                                |
| Guide                                      | Recirculating ball bearing guide                                   |
| Structural design                          | Twin piston<br>Yoke<br>Piston rod<br>Slide                         |
| Position sensing                           | For proximity sensor                                               |
| Symbol                                     | 00991249                                                           |
| Operating pressure                         | 0.1 MPa ... 0.8 MPa                                                |
| Operating pressure                         | 1 bar ... 8 bar                                                    |
| Operating pressure                         | 14.5 psi ... 116 psi                                               |
| Max. speed                                 | 0.8 m/s                                                            |
| Repetition accuracy                        | ≤ 0.02 mm                                                          |
| Mode of operation                          | Double-acting                                                      |
| Operating medium                           | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media   | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)           | 1 - Low corrosion stress                                           |
| LABS (PWIS) conformity                     | VDMA24364-B1/B2-L                                                  |
| Cleanroom class                            | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                        | -10 °C ... 60 °C                                                   |
| Impact energy in the end positions         | 0.8 J                                                              |
| Cushioning length                          | 4 mm                                                               |
| Max. force F <sub>y</sub>                  | 510 N                                                              |
| Max. force F <sub>z</sub>                  | 510 N                                                              |
| Max. torque M <sub>x</sub>                 | 5 Nm                                                               |
| Max. torque M <sub>y</sub>                 | 4.5 Nm                                                             |
| Max. torque M <sub>z</sub>                 | 4.5 Nm                                                             |
| Theoretical force at 6 bar, retracting     | 79 N                                                               |
| Theoretical force at 6 bar, advancing      | 94 N                                                               |

| Feature              | Value                            |
|----------------------|----------------------------------|
| Moving mass          | 187.2 g                          |
| Product weight       | 379.4 g                          |
| Type of mounting     | With through-hole                |
| Pneumatic connection | M5                               |
| Note on materials    | RoHS-compliant                   |
| Cover material       | Wrought aluminum alloy           |
| Seals material       | HNBR                             |
| Guide material       | POM<br>TPE-E<br>High-alloy steel |
| Housing material     | Wrought aluminum alloy           |
| Piston rod material  | High-alloy stainless steel       |