

# Mini slide DGST-10-50-E1A

Part number: 8078843

**FESTO**



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                                    | 50 mm                                                              |
| Piston diameter                                           | 10 mm                                                              |
| Drive unit operating mode                                 | Yoke                                                               |
| Cushioning                                                | Elastomer cushioning, at both ends, stroke not adjustable          |
| Mounting position                                         | Any                                                                |
| Guide                                                     | Recirculating ball bearing                                         |
| Structural design                                         | Double piston<br>Yoke<br>Piston rod<br>Slide                       |
| Position sensing                                          | Via proximity switch                                               |
| Operating pressure                                        | 0.1 MPa...0.8 MPa<br>1 bar...8 bar<br>14.5 psi...116 psi           |
| Max. speed                                                | 0.5 m/s                                                            |
| Repetition accuracy                                       | <= 0.3 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 suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                                       | -10 °C...60 °C                                                     |
| Impact energy in the end positions                        | 0.05 J                                                             |
| Cushioning length                                         | 1.6 mm                                                             |
| Max. force Fy                                             | 510 N                                                              |
| Max. force Fz                                             | 510 N                                                              |
| Max. torque Mx                                            | 5 Nm                                                               |
| Max. torque My                                            | 4.5 Nm                                                             |
| Max. torque Mz                                            | 4.5 Nm                                                             |
| Theoretical force at 6 bar, retracting                    | 79 N                                                               |
| Theoretical force at 6 bar, advancing                     | 94 N                                                               |

| Feature              | Value                            |
|----------------------|----------------------------------|
| Moving mass          | 177 g                            |
| Product weight       | 359 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       |