

# Mini slide DGSS-16-50-E1A

Part number: 8164075

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 50 mm   |
| Size   | 16  |
| Piston diameter                                    | 16 mm   |
| Cushioning   | Elastomer cushioning, at both ends, stroke not adjustable   |
| Mounting position                                  | Any   |
| Guide  | Recirculating ball bearing guide  |
| Structural design                                  | Yoke<br>Piston rod<br>Slide   |
| Position sensing                                   | For proximity sensor  |
| Symbol   | 00991737  |
| Operating pressure                                 | 0.1 MPa ... 0.8 MPa   |
| Operating pressure                                 | 1 bar ... 8 bar   |
| Operating pressure                                 | 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-C1-L  |
| Suitability for the production of Li-ion batteries | Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                    | Class 6 according to ISO 14644-1  |
| Ambient temperature                                | -10 °C ... 60 °C  |
| Impact energy in the end positions                 | 0.03 J  |
| Cushioning length                                  | 0.65 mm   |
| Max. force F <sub>y</sub>                          | 682 N   |
| Max. force F <sub>z</sub>                          | 682 N   |
| Max. torque M <sub>x</sub>                         | 3.2 Nm  |
| Max. torque M <sub>y</sub>                         | 1.9 Nm  |
| Max. torque M <sub>z</sub>                         | 1.9 Nm  |
| Theoretical force at 6 bar, retracting             | 104 N   |
| Theoretical force at 6 bar, advancing              | 121 N   |
| Moving mass  | 137 g   |

| <b>Feature</b>       | <b>Value</b>                              |
|----------------------|---|
| Product weight       | 306 g                                     |
| Type of mounting     | With through-hole<br>With internal thread |
| Pneumatic connection | M5  |
| Note on materials    | RoHS-compliant                            |
| Cover material       | Wrought aluminum alloy                    |
| Seals material       | NBR<br>PU                                 |
| Guide material       | NBR<br>PA<br>High-alloy steel             |
| Housing material     | Wrought aluminum alloy                    |
| Piston rod material  | High-alloy stainless steel                |