


# 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   |
| Structural design   | Yoke<br>Piston rod<br>Slide  |
| Position sensing  | Via proximity switch   |
| 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        | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| 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                        | 0.03 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  |
| Product weight  | 306 g  |

| <b>Feature</b>       | <b>Value</b>                              |
|----------------------|---|
| 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                |