

# Mini slide DGSS-20-5-E1A

Part number: 8164077

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                            | Value                                                              |
|----------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                             | 5 mm                                                               |
| Size                                               | 20                                                                 |
| Piston diameter                                    | 20 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 | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom class                                    | 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 mm                                                               |
| Max. force Fy                                      | 1560 N                                                             |
| Max. force Fz                                      | 1560 N                                                             |
| Max. torque Mx                                     | 10.1 Nm                                                            |
| Max. torque My                                     | 5.1 Nm                                                             |
| Max. torque Mz                                     | 5.1 Nm                                                             |
| Theoretical force at 6 bar, retracting             | 158 N                                                              |
| Theoretical force at 6 bar, advancing              | 188 N                                                              |
| Moving mass                                        | 156 g                                                              |
| Product weight                                     | 379 g                                                              |

| Feature              | Value                                     |
|----------------------|-------------------------------------------|
| 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                |