

# Mini slide DGSS-20-25-E1A

Part number: 8164081

**FESTO**



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                                    | 25 mm                                                              |
| Size                                                      | 20                                                                 |
| Piston diameter                                           | 20 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                                               |
| 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-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                        | 0.05 J                                                             |
| Cushioning length                                         | 1 mm                                                               |
| Max. force Fy                                             | 1448 N                                                             |
| Max. force Fz                                             | 1448 N                                                             |
| Max. torque Mx                                            | 9.4 Nm                                                             |
| Max. torque My                                            | 4.7 Nm                                                             |
| Max. torque Mz                                            | 4.7 Nm                                                             |
| Theoretical force at 6 bar, retracting                    | 158 N                                                              |
| Theoretical force at 6 bar, advancing                     | 188 N                                                              |

| Feature              | Value                                     |
|----------------------|-------------------------------------------|
| Moving mass          | 184 g                                     |
| Product weight       | 450 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                |