

# Mini slide DGSS-10-40-E1A

Part number: 8164065

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                                      | Value                                                                                                                                                                                                                 |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stroke                                                       | 40 mm                                                                                                                                                                                                                 |
| Size                                                         | 10                                                                                                                                                                                                                    |
| Piston diameter                                              | 10 mm                                                                                                                                                                                                                 |
| Cushioning                                                   | Elastomer cushioning, double-sided, stroke not adjustable                                                                                                                                                             |
| Mounting position                                            | optional                                                                                                                                                                                                              |
| Guide                                                        | Recirculating ball bearing guide                                                                                                                                                                                      |
| Design                                                       | Yoke<br>Piston rod<br>Slide                                                                                                                                                                                           |
| Position detection                                           | 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 to ISO 8573-1:2010 [7:4:4]                                                                                                                                                                             |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required)                                                                                                                            |
| 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 are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, 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 end positions                               | 0.018 J                                                                                                                                                                                                               |
| Cushioning length                                            | 1.5 mm                                                                                                                                                                                                                |
| Max. force F <sub>y</sub>                                    | 655 N                                                                                                                                                                                                                 |
| Max. force F <sub>z</sub>                                    | 655 N                                                                                                                                                                                                                 |
| Max. moment M <sub>x</sub>                                   | 2.4 Nm                                                                                                                                                                                                                |
| Max. moment M <sub>y</sub>                                   | 2.1 Nm                                                                                                                                                                                                                |
| Max. moment M <sub>z</sub>                                   | 2.1 Nm                                                                                                                                                                                                                |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 39 N                                                                                                                                                                                                                  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 47 N                                                                                                                                                                                                                  |
| Moving mass                                                  | 77 g                                                                                                                                                                                                                  |

| Feature              | Value                                  |
|----------------------|----------------------------------------|
| Product weight       | 183 g                                  |
| Type of mounting     | With through-hole<br>Via female thread |
| Pneumatic connection | M5                                     |
| Note on materials    | RoHS-compliant                         |
| Material cover       | Wrought aluminium alloy                |
| Material seals       | NBR<br>PU                              |
| Material guide       | NBR<br>PA<br>High-alloy steel          |
| Material housing     | Wrought aluminium alloy                |
| Material piston rod  | High-alloy stainless steel             |