

# Mini slide DGST-20-10-PA

Part number: 8085139

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                                     | Value                                                                                      |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                      | 10 mm                                                                                      |
| Adjustable end position range/length front                  | 10.1 mm                                                                                    |
| Adjustable end position range/length rear                   | 10.1 mm                                                                                    |
| Piston diameter                                             | 20 mm                                                                                      |
| Operating mode, drive unit                                  | Yoke                                                                                       |
| Cushioning                                                  | Elastic cushioning rings/plates at both ends                                               |
| Mounting position                                           | optional                                                                                   |
| Guide                                                       | Ball bearing cage guide                                                                    |
| Design                                                      | Twin piston<br>Yoke<br>Piston rod<br>Slide                                                 |
| Position detection                                          | Via proximity switch                                                                       |
| Symbol                                                      | 00991249                                                                                   |
| Operating pressure                                          | 0.1 MPa ... 0.8 MPa                                                                        |
| Operating pressure                                          | 1 bar ... 8 bar                                                                            |
| Operating pressure                                          | 14.5 psi ... 116 psi                                                                       |
| Max. speed                                                  | 0.8 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-B1/B2-L                                                                          |
| Cleanroom class                                             | Class 6 according to ISO 14644-1                                                           |
| Ambient temperature                                         | -10 °C ... 60 °C                                                                           |
| Impact energy in end positions                              | 0.35 J                                                                                     |
| Cushioning length                                           | 1.2 mm                                                                                     |
| Max. force F <sub>y</sub>                                   | 1600 N                                                                                     |
| Max. force F <sub>z</sub>                                   | 1600 N                                                                                     |
| Max. moment M <sub>x</sub>                                  | 16 Nm                                                                                      |
| Max. moment M <sub>y</sub>                                  | 18 Nm                                                                                      |
| Max. moment M <sub>z</sub>                                  | 18 Nm                                                                                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 317 N                                                                                      |

| Feature                                                      | Value                            |
|--------------------------------------------------------------|----------------------------------|
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 377 N                            |
| Moving mass                                                  | 512.5 g                          |
| Product weight                                               | 1123 g                           |
| Type of mounting                                             | With through-hole                |
| Pneumatic connection                                         | G1/8                             |
| Note on materials                                            | RoHS-compliant                   |
| Material cover                                               | Wrought aluminium alloy          |
| Material seals                                               | HNBR                             |
| Material guide                                               | POM<br>TPE-E<br>High-alloy steel |
| Material housing                                             | Wrought aluminium alloy          |
| Material piston rod                                          | High-alloy stainless steel       |