

# Guided drive DFM-63-50-P-A-KF-F1A

Part number: 8118955

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Distance from centre of gravity of load to yoke plate xs | 50 mm  |
| Stroke   | 50 mm  |
| Piston diameter  | 63 mm  |
| Operating mode, drive unit                               | Yoke   |
| Cushioning   | Elastic cushioning rings/plates at both ends   |
| Mounting position  | optional   |
| Guide  | Recirculating ball bearing guide   |
| Design   | Guidance   |
| Position detection                                       | Via proximity switch   |
| Variants   | Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Operating pressure                                       | 0.1 MPa...1 MPa<br>1 bar...10 bar  |
| Max. speed   | 0.6 m/s  |
| 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                           | 0 - No corrosion stress  |
| LABS (PWIS) conformity                                   | VDMA24364-B1/B2-L  |
| Suitability for the production of Li-ion batteries       | Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Ambient temperature                                      | -5 °C...60 °C  |
| Impact energy in end positions                           | 1,3 Nm   |
| Max. force Fy  | 1487 N   |
| Max. force Fy static                                     | 1600 N   |
| Max. force Fz  | 1487 N   |
| Max. force Fz static                                     | 1600 N   |
| Max. moment Mx   | 92.97 Nm   |
| Max. torque Mx static                                    | 100 Nm   |

| Feature   | Value                      |
|---|----------------------------|
| Max. moment $M_y$   | 31.98 Nm                   |
| Max. torque $M_y$ static  | 34.4 Nm                    |
| Max. moment $M_z$   | 31.98 Nm                   |
| Max. torque $M_z$ static  | 34.4 Nm                    |
| Max. permissible torque load $M_x$ as a function of stroke          | 17.62 Nm                   |
| Max. effective load dependent upon stroke at defined distance $x_s$ | 202 N                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke         | 1750 N                     |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke        | 1870 N                     |
| Moving mass   | 2413 g                     |
| Product weight  | 4959 g                     |
| Centre of gravity of moving mass as a function of stroke            | 35.8 mm                    |
| alternative connections   | See product drawing        |
| Pneumatic connection  | G1/4                       |
| Note on materials   | RoHS-compliant             |
| Material cover  | Wrought aluminium alloy    |
| Material seals  | NBR                        |
| Material housing  | Wrought aluminium alloy    |
| Material piston rod   | High-alloy stainless steel |