

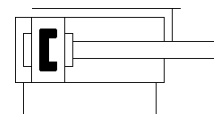
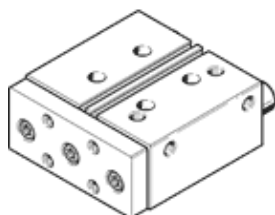
# guided drive

## DFM-12-10-P-A-KF-F1A

Part number: 8118631

FESTO

The proximity switch, type SMTSO-8E, is not suitable for this product.



## Data sheet

| Feature   | Value  |
|---|--|
| Centre of gravity distance from working load to yoke plate          | 25 mm  |
| Stroke  | 10 mm  |
| Piston diameter   | 12 mm  |
| Operating mode of drive unit  | Yoke   |
| Cushioning  | P: Flexible cushioning rings/plates at both ends                                   |
| Assembly position   | Any  |
| Guide   | Recirculating ball bearing guide   |
| Design structure  | Guide  |
| Position detection  | For proximity sensor   |
| Variants  | Recommended for production facilities for the manufacture of lithium-ion batteries |
| Operating pressure MPa  | 0.2 ... 1 MPa  |
| Operating pressure  | 2 ... 10 bar   |
| Max. speed  | 0.8 m/s  |
| Mode of operation   | double-acting  |
| Operating medium  | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                           |
| Note on operating and pilot medium                                  | Lubricated operation possible (subsequently required for further operation)        |
| Corrosion resistance classification CRC                             | 0 - No corrosion stress  |
| PWIS conformity   | VDMA24364-B1/B2-L  |
| RSBP classification to CD-0033                                      | F1a  |
| Cleanroom class   | ISO class 5  |
| Ambient temperature   | -5 ... 60 °C   |
| Impact energy in end positions                                      | 0.07 Nm  |
| Max. force Fy   | 270 N  |
| Max. force Fy static  | 355 N  |
| Max. force Fz   | 270 N  |
| Max. force Fz static  | 355 N  |
| Max. torque Mx  | 5.53 Nm  |
| Max. torque Mx static   | 7.28 Nm  |
| Max. torque My  | 2.43 Nm  |
| Max. torque My static   | 3.2 Nm   |
| Max. torque Mz  | 2.43 Nm  |
| Max. torque Mz static   | 3.2 Nm   |
| Max. permissible torque load Mx as a function of the stroke         | 1.21 Nm  |
| Max. useful load as a function of the stroke at defined distance xs | 38 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting            | 51 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance               | 68 N   |
| Moving mass   | 155 g  |
| Product weight  | 314 g  |
| Centre of gravity of the moving mass as a function of the stroke    | 13.6 mm  |
| alternative connections   | See product drawing  |
| Pneumatic connection  | M5   |
| Materials note  | Conforms to RoHS   |
| Material cover  | Wrought Aluminium alloy  |
| Material seals  | NBR  |
| Material housing  | Wrought Aluminium alloy  |
| Material piston rod   | High alloy steel, non-corrosive  |