

Guide cylinder

DFM-40-50-P-A-KF-F1A

Part number: 8118915

FESTO

The proximity switch, type SMTSO-8E, can be used with this product with stroke lengths equal to or greater than 50 mm. The corresponding mounting kit, type SMB-8E, is mounted inwardly or outwardly.



Data sheet

| Feature | Value |
|---|--|
| Centre of gravity distance from working load to yoke plate | 50 mm |
| Stroke | 50 mm |
| Piston diameter | 40 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 | 0.15 ... 1 MPa |
| Working pressure | 1.5 ... 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 | 0.7 Nm |
| Max. force Fy | 1,130 N |
| Max. force Fy static | 1,260 N |
| Max. force Fz | 1,130 N |
| Max. force Fz static | 1,260 N |
| Max. torque Mx | 49.74 Nm |
| Max. torque Mx static | 55.44 Nm |
| Max. torque My | 18.66 Nm |
| Max. torque My static | 20.79 Nm |
| Max. torque Mz | 18.66 Nm |
| Max. torque Mz static | 20.79 Nm |
| Max. permissible torque load Mx as a function of the stroke | 8 Nm |
| Max. useful load as a function of the stroke at defined distance xs | 126 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 686 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 754 N |
| Moving mass | 1,175 g |
| Product weight | 2,439 g |
| Centre of gravity of the moving mass as a function of the stroke | 37.3 mm |
| alternative connections | See product drawing |

| Feature | Value |
|----------------------|---------------------------------|
| Pneumatic connection | G1/8 |
| Materials note | Conforms to RoHS |
| Material cover | Wrought Aluminum alloy |
| Material seals | NBR |
| Material housing | Wrought Aluminum alloy |
| Material piston rod | High alloy steel, non-corrosive |