

Guide cylinder

DFM-16-100-P-A-KF-F1A

Part number: 8118837

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 | 100 mm |
| Piston diameter | 16 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 |
| Working 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 | 0.15 Nm |
| Max. force F _y | 778 N |
| Max. force F _y static | 830 N |
| Max. force F _z | 778 N |
| Max. force F _z static | 830 N |
| Max. torque M _x | 17.9 Nm |
| Max. torque M _x static | 19.09 Nm |
| Max. torque M _y | 10.5 Nm |
| Max. torque M _y static | 11.2 Nm |
| Max. torque M _z | 10.5 Nm |
| Max. torque M _z static | 11.2 Nm |
| Max. permissible torque load M _x as a function of the stroke | 1.77 Nm |
| Max. useful load as a function of the stroke at defined distance xs | 58 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 90 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 121 N |
| Moving mass | 392 g |
| Product weight | 982 g |
| Centre of gravity of the moving mass as a function of the stroke | 56.5 mm |
| alternative connections | See product drawing |

| Feature | Value |
|----------------------|---------------------------------|
| Pneumatic connection | M5 |
| 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 |