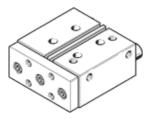
## Guide cylinder DFM-32-100-P-A-KF-F1A Part number: 8118897

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   | 32 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-<br>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                                      | 0.4 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  | 44.09 Nm   |
| Max. torque Mx static   | 49.14 Nm   |
| Max. torque My  | 28.83 Nm   |
| Max. torque My static   | 32.13 Nm   |
| Max. torque Mz  | 28.83 Nm   |
| Max. torque Mz static   | 32.13 Nm   |
| Max. permissible torque load Mx as a function of the stroke         | 6.86 Nm  |
| Max. useful load as a function of the stroke at defined distance xs | 138 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting            | 415 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance               | 482 N  |
| Moving mass   | 1,254 g  |
| Product weight  | 2,781 g  |
| Centre of gravity of the moving mass as a function of the stroke    | 63 mm  |
| alternative connections   | See product drawing  |

**FESTO** 

## FESTO

| 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 |