

# guided drive DFM-32-160-P-A-GF-F1A

Part number: 8118889

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  | 160 mm   |
| Piston diameter   | 32 mm  |
| Operating mode of drive unit  | Yoke   |
| Cushioning  | P: Flexible cushioning rings/plates at both ends                                   |
| Assembly position   | Any  |
| Guide   | Plain-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   |
| Operating 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 8  |
| Ambient temperature   | -20 ... 80 °C  |
| Impact energy in end positions                                      | 0.4 Nm   |
| Max. force Fy   | 1,227 N  |
| Max. force Fy static  | 1,227 N  |
| Max. force Fz   | 1,227 N  |
| Max. force Fz static  | 1,227 N  |
| Max. torque Mx  | 47.84 Nm   |
| Max. torque Mx static   | 47.84 Nm   |
| Max. torque My  | 47.84 Nm   |
| Max. torque My static   | 47.84 Nm   |
| Max. torque Mz  | 47.84 Nm   |
| Max. torque Mz static   | 47.84 Nm   |
| Max. permissible torque load Mx as a function of the stroke         | 6.54 Nm  |
| Max. useful load as a function of the stroke at defined distance xs | 146 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   | 2,003 g  |
| Product weight  | 4,149 g  |
| alternative connections   | See product drawing  |
| Pneumatic connection  | G1/8   |

| <b>Feature</b>      | <b>Value</b>                    |
|---------------------|---------------------------------|
| 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 |