

# Standards-based cylinder

## DSNU-8-50-P-A

Part number: 19180

FESTO

Based on DIN ISO 6432, for proximity sensing. Various mounting options, with or without additional mounting components. With elastic cushioning rings in the end positions.



### Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 50 mm   |
| Piston diameter  | 8 mm  |
| Piston rod thread  | M4  |
| Cushioning   | P: Flexible cushioning rings/plates at both ends                            |
| Assembly position  | Any   |
| Conforms to standard                                     | CETOP RP 52 P<br>ISO 6432   |
| Piston-rod end   | Male thread   |
| Design structure   | Piston<br>Piston rod<br>Cylinder barrel                                     |
| Position detection                                       | For proximity sensor  |
| Variants   | Single-ended piston rod   |
| Operating pressure MPa                                   | 0.15 ... 1 MPa  |
| Working pressure   | 1.5 ... 10 bar  |
| 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                  | 2 - Moderate corrosion stress   |
| PWIS conformity  | VDMA24364-B1/B2-L   |
| Cleanroom class  | ISO class 6   |
| Ambient temperature                                      | -20 ... 80 °C   |
| Impact energy in end positions                           | 0.03 J  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 22.6 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 30.2 N  |
| Moving mass with 0 mm stroke                             | 7.5 g   |
| Additional mass factor per 10 mm of stroke               | 1 g   |
| Basic weight for 0 mm stroke                             | 34.6 g  |
| Additional weight per 10 mm stroke                       | 2.4 g   |
| Mounting type  | with accessories  |
| Pneumatic connection                                     | M5  |
| Materials note   | Conforms to RoHS  |
| Material cover   | Wrought Aluminum alloy<br>neutral anodization                               |
| Material seals   | NBR<br>TPE-U(PU)  |
| Material piston rod                                      | High alloy steel, non-corrosive   |
| Material cylinder barrel                                 | High alloy steel, non-corrosive   |