

# ISO cylinder DSNU-10-50-P-A

Part number: 19186

**FESTO**



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                                    | 50 mm                                                              |
| Piston diameter                                           | 10 mm                                                              |
| Piston rod thread                                         | M4                                                                 |
| Cushioning                                                | Elastic cushioning rings/pads at both ends                         |
| Mounting position                                         | Any                                                                |
| Conforms to standard                                      | CETOP RP 52 P<br>ISO 6432                                          |
| Piston rod end                                            | External thread                                                    |
| Structural design                                         | Piston<br>Piston rod<br>Cylinder barrel                            |
| Position sensing                                          | Via proximity switch                                               |
| Variants                                                  | Piston rod at one end                                              |
| Operating pressure                                        | 0.15 MPa...1 MPa<br>1.5 bar...10 bar                               |
| Mode of operation                                         | Double-acting                                                      |
| Operating medium                                          | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media                  | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)                          | 2 - Moderate corrosion stress                                      |
| LABS (PWIS) conformity                                    | VDMA24364-B1/B2-L                                                  |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                                       | -20 °C...80 °C                                                     |
| Impact energy in the end positions                        | 0.05 J                                                             |
| Theoretical force at 6 bar, retracting                    | 39.6 N                                                             |
| Theoretical force at 6 bar, advancing                     | 47.1 N                                                             |
| Moving mass at 0 mm stroke                                | 8.5 g                                                              |
| Additional moving mass per 10 mm stroke                   | 1 g                                                                |
| Basic weight with 0 mm stroke                             | 37.3 g                                                             |
| Additional weight per 10 mm stroke                        | 2.7 g                                                              |
| Type of mounting                                          | With accessories                                                   |
| Pneumatic connection                                      | M5                                                                 |
| Note on materials                                         | RoHS compliant                                                     |
| Cover material                                            | Wrought aluminum alloy                                             |

| Feature                     | Value                      |
|-----------------------------|----------------------------|
|                             | Colorless anodized         |
| Seals material              | NBR<br>TPE-U(PU)           |
| Piston rod material         | high-alloy stainless steel |
| Material of cylinder barrel | high-alloy stainless steel |