

# Round cylinder ESNU-50-50-P-A

Part number: 196384

FESTO



 General operating condition

## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                       | 50 mm                                                                                      |
| Piston diameter                                              | 50 mm                                                                                      |
| Piston rod thread                                            | M16x1.5                                                                                    |
| Cushioning                                                   | Elastic cushioning rings/plates at both ends                                               |
| Mounting position                                            | optional                                                                                   |
| Design                                                       | Piston<br>Piston rod<br>Cylinder barrel                                                    |
| Position detection                                           | Via proximity switch                                                                       |
| Symbol                                                       | 00991729                                                                                   |
| Operating pressure                                           | 0.12 MPa ... 1 MPa                                                                         |
| Operating pressure                                           | 1.2 bar ... 10 bar                                                                         |
| Mode of operation                                            | Pushing<br>Single-acting                                                                   |
| Operating medium                                             | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 2 - Moderate corrosion stress                                                              |
| LABS (PWIS) conformity                                       | VDMA24364-B1/B2-L                                                                          |
| Ambient temperature                                          | -20 °C ... 80 °C                                                                           |
| Impact energy in end positions                               | 1 J                                                                                        |
| Spring return force with retracted piston rod                | 60 N                                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 60 N                                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1072.8 N                                                                                   |
| Moving mass                                                  | 538 g                                                                                      |
| Moving mass for 0 mm stroke                                  | 413 g                                                                                      |
| Additional moving mass per 10 mm stroke                      | 25 g                                                                                       |
| Product weight                                               | 1287 g                                                                                     |
| Basic weight for 0 mm stroke                                 | 1087 g                                                                                     |
| Additional weight per 10 mm stroke                           | 40 g                                                                                       |
| Type of mounting                                             | With accessories                                                                           |
| Pneumatic connection                                         | G1/4                                                                                       |
| Note on materials                                            | RoHS-compliant                                                                             |
| Material cover                                               | Wrought aluminium alloy                                                                    |
| Material seals                                               | NBR<br>TPE-U(PU)                                                                           |
| Material piston rod                                          | High-alloy steel                                                                           |

| Feature                  | Value                      |
|--------------------------|----------------------------|
| Material cylinder barrel | High-alloy stainless steel |