

# standards-based cylinder

## DSNU-12-40-P-A

Part number: 19191

★ Core product range

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                                     | 40 mm   |
| Piston diameter                            | 12 mm   |
| Piston rod thread                          | M6  |
| 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                         | 1.5 ... 10 bar  |
| Mode of operation                          | double-acting   |
| Maritime classification                    | see certificate   |
| 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   |
| Ambient temperature                        | -20 ... 80 °C   |
| Impact energy in end positions             | 0.07 J  |
| Theoretical force at 6 bar, return stroke  | 50.9 N  |
| Theoretical force at 6 bar, advance stroke | 67.9 N  |
| Moving mass with 0 mm stroke               | 18.5 g  |
| Additional weight per 10 mm stroke         | 4 g   |
| Basic weight for 0 mm stroke               | 75 g  |
| Additional mass factor per 10 mm of stroke | 2 g   |
| Mounting type                              | with accessories  |
| Pneumatic connection                       | M5  |
| Materials note                             | Conforms to RoHS  |
| Material cover                             | Wrought Aluminium alloy<br>neutral anodisation                              |
| Material seals                             | NBR<br>TPE-U(PU)  |
| Material piston rod                        | High alloy steel, non-corrosive   |
| Material cylinder barrel                   | High alloy steel, non-corrosive   |