

ISO cylinder DNCI-32- -

Part number: 535411

FESTO



Data sheet

| Feature | Value |
|--|--|
| Stroke | 10 mm...2000 mm |
| Stroke, servopneumatic positioning | 100 mm...500 mm |
| Soft Stop stroke | 100 mm...500 mm |
| Stroke reduction in the end positions | ≥ 10 mm |
| Shortest positioning stroke | 3% of max. stroke Maximum 20 mm, however |
| Piston diameter | 32 mm |
| Based on norm | ISO 15552 (previously also VDMA 24562, ISO 6431, NF E49 003.1, UNI 10290) |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Mounting position, positioning | Any |
| Mounting position, Soft Stop | Any |
| Measuring principle of linear potentiometer | Digital |
| Structural design | Piston Piston rod Profile barrel |
| Position sensing | For proximity sensor With integrated linear potentiometer |
| Variants | Clamping unit attached Extended piston rod Piston rod at one end With two measuring heads |
| Protection against torsion/guide | Dual flat piston rod |
| Operating pressure | 1.2 MPa 12 bar 174 psi |
| Operating pressure for positioning/soft stop | 4 bar...8 bar |
| Max. travel speed | 1.5 m/s |
| Min. travel speed | 0.05 m/s |
| Typical positioning time, short-stroke, horizontal | 0.35/0.55 s |
| Typical positioning time, long stroke, horizontal | 0.45/0.7 s |
| Mode of operation | Double-acting |
| Nominal operating voltage DC | 5 V |

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|--|--|
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Operating medium | Compressed air as per ISO 8573-1:2010 [6:4:4] |
| Information on operating and pilot media | Dew point min. 10 °C below the ambient temperature and temperature of medium |
| Continuous shock resistance to DIN/IEC 68 Part 2-82 | Tested as per severity level 2 |
| Corrosion resistance class (CRC) | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Max. magnetic interference field | 10 kA/m at a distance of 100 mm |
| Degree of protection | IP65 as per IEC 60529 |
| Vibration resistance to DIN/IEC 68 Part 2-6 | Tested as per severity level 2 |
| Ambient temperature | -20 °C...80 °C |
| Impact energy in the end positions | 0.1 Nm |
| Max. torque for protection against rotation | 0.05 Nm |
| Max. load, horizontal | 45 kg |
| Max. load, vertical | 15 kg |
| Min. load, horizontal | 3 kg |
| Min. load, vertical | 3 kg |
| Theoretical force at 6 bar, retracting | 415 N |
| Theoretical force at 6 bar, advancing | 415 N...483 N |
| Moving mass at 0 mm stroke | 95 g |
| Additional moving mass per 10 mm stroke | 8 g |
| Basic weight with 0 mm stroke | 521 g |
| Additional weight per 10 mm stroke | 30 g |
| Output signal | Analog |
| Repetition accuracy in ± mm | 0.5 mm |
| Max. controllable force, advancing | 435 N |
| Max. controllable force, retracting | 374 N |
| Typical friction force | 35 N |
| Repetition accuracy, Soft Stop intermediate position | +/- 2 mm |
| Linear potentiometer electrical connection | 8-pin |
| Cable length | 1.5 m |
| Type of mounting | With accessories |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS-compliant |
| Cover material | Wrought aluminum alloy |
| Seals material | NBR TPE-U(PU) |
| Material of cable sheath | TPE-U(PUR) |
| Piston rod material | High-alloy steel |
| Material of screws | Steel |
| Sensor cover material | Aluminum |
| Sensor head material | POM |
| Material of plug housing | PBT |
| Material of cylinder barrel | Wrought aluminum alloy |
| MTTF, subcomponent | 4761 years, sensor |